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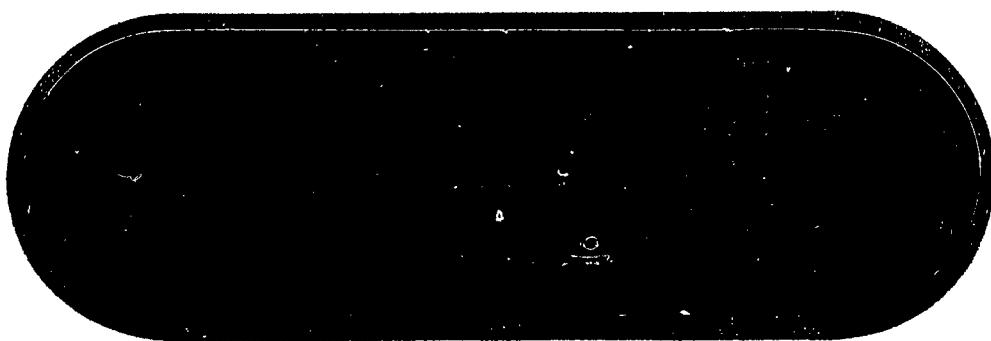


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ACTIVE-CHANGED PAGE

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1.0.0

PURPOSE AND SCOPE

1.0.1

The purpose of this volume is to present the test report for Engineering Development Integration Test - II on Block Change -1 equipment (EDIT II-1). The EDIT II-1 test was conducted in accordance with the Test Procedures Document D2-13308 Volume 2 and the EDIT Program Plan, D2-13307.

1.1.0

EQUIPMENT IN TEST

Programmer Group, Figure A 1201

Programmer Group Test Set (Portable) Figure A 3092

Relay Assembly, Dummy Decoder, Figure A 3113

400 Cycle Power Control Box (25-34035)

EDIT Power Supply Cable (Power supply to 400 cycle control box).

2.0.0

SUMMARY

2.0.1

A self test of the Programmer Group (P/G) Test Set was completed with one minor discrepancy noted. In the voltage checks of paragraph 3.1.3.2 -(3) at Selector Switch positions 15 and 18, voltages were found to be slightly out of tolerance. The purpose of these voltage checks was to verify continuity. The tolerances given are being changed to allow for diode voltage drops which were larger than anticipated.

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Compatibility tests between the P/G and its Test Set resulted in No-Go's from approximately 15 cards. It was found that the phase supply voltage rise time of the P/G was operating near the lower limit of tolerance. The P/G model specifications state that rise time of the phase supply voltage should be measured in the range from 10 to 90 percent of the pulse magnitude of 12 volts. The P/G functional test was set up using this 10 to 90 percent range for phase supply voltage testing. When functionally tested, the P/G was found to be within tolerance. The P/G Test Set, however, was calibrated to measure rise time in the range from 3 to 10 volta (25 to 83.3 percent) of the pulse magnitude. In other words, the P/G Test Set measured the rise time of the phase supply voltage over a narrower range than was used in the P/G functional test. As a result, the phase supply voltage was slightly out of tolerance and the P/G Test Set initiated the No-Go's.

The P/G Test Set evaluators were recalibrated to measure the phase supply voltage rise time over a wider range. After recalibration the compatibility tests were repeated with acceptable results.

3.0.0 REPORT

3.0.1 The EDIT II-1 test was performed according to the Test Procedure Document D2-13308, Volume 2. These procedures and the recorded results are given in paragraph 3.1.0.0 through 3.3.8.3 which follow.

| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|-----------|---|-------------|----------|
| 3.1.0.0 | | | |
| | P/G TEST SET SELF-TEST PROCEDURES | | |
| 3.1.1.0 | | | |
| | Test Set-Up | | |
| 3.1.1.1 | | | |
| | The P/G Test Set must be isolated from all electronic equipment with the exception of the Test Set Power case. | | |
| 3.1.1.2 | | | |
| | Connect the regulated power supply suitcase to the Test Set electronic component and control suitcase as shown in Figure 3.1.1.2-1. | | |

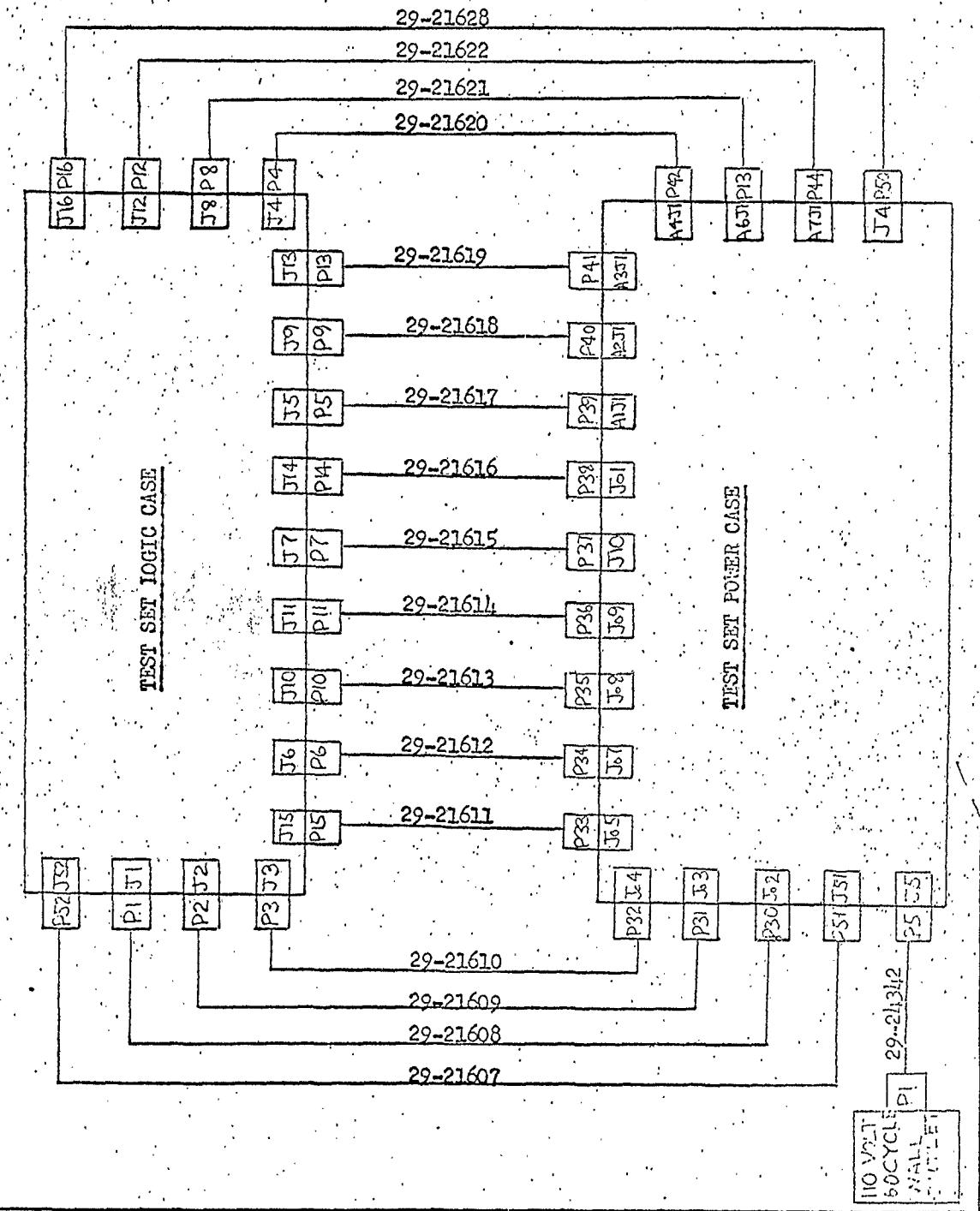
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Figure 3.1.1.2-1

Self-Test Connection



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| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|-----------|--|--|----------------|
| 3.1.1.3 | Connect power cable to 120 volt, 60 cps outlet. | | |
| 3.1.1.4 | Press the TEST SET POWER ON switch on the Test Set. | TEST SET POWER ON lamp turns ON. The AFS ALARM and W/H ALARM lamps turn ON. The WARNING lamp starts flashing at 4 cps. | OK OK OK |
| | <u>NOTE:</u> The Test Set must be ON for 30 seconds before running any card tests. | These conditions exist until the 13th card. | |
| 3.1.1.5 | Press the P/G POWER ON switch. | P/G POWER ON lamp ON. | OK |

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| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|-----------------------|---|---|----------|
| 3.1.2.0 Card Tests | | | |
| 3.1.2.1 | Insert selected punched cards in the Test Set CARD READER face up and beveled corner out. Push CARD READER HANDLE fully down to engage electrical contacts. | | |
| 3.1.2.2 | Push START TEST button on the Test Set. NOTE: The START TEST switch must be held down until the START TEST lamp turns ON. | START TEST lamp ON. OK | |
| 3.1.2.3 | When GO lamp illuminates and the TEST IN PROCESS lamp goes OFF, lift the card reader handle and remove card. | TEST IN PROCESS lamp OFF. GO or NO-GO lamp ON. OK | |

| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|----------------------|---|-------------|--|
| 3.1.2.3. (Continued) | | | |
| | <p><u>NOTE:</u> Additional instructions, when needed, are given for each card test.</p> | | |
| 3.1.2.4 | Record each test result in appropriate column allocated for each card or voltage test in this document. | | |
| 3.1.2.5 | Repeat paragraphs 3.1.2.1 thru 3.1.2.4 for each succeeding test. | | |
| 3.1.3.0 | | | |
| 3.1.3.1 | Self-Test | | Select punched cards (25-30947-125 thru 25-30947-147) for self-test of the Test Set. |

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| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|--|---|---------------------------|----------|
| 3.1.3.2 Follow paragraphs 3.1.2.1 thru 3.1.2.5 starting with card 25-30947-125. | | | |
| (1) Card 25-30947-125. After the GO lamp is ON, set the Range Switch at 3, and rotate the Selector Switch successively through the positions indicated in Table 3.1.3.2-1. Read the Voltmeter at each position of the Selector Switch. | GO lamp ON. The voltmeter shall read 10 ± 0.5 volts at each setting of the Selector Switch. | OK See Table 3.1.3.2-1 | |
| (2) Card 25-30947-126. Follow same procedure as number 1 above. | NO-GO lamp ON. The voltmeter shall read 10 ± 0.5 volts at each setting of the Selector Switch except at position 14 which reads 0 ± 0.5 volts. | OK See Table 3.1.3.2-1 | |

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Table 3.1.3.2-1
Voltmeter Switching Requirements Self-Test Procedure

| Selector Switch Position | Card-125 Accept. Volts Read | Card-125 Volts Read | Card-126 Accept. Volts Read | Card-126 Volts Read | Card-127 Accept. Volts Read | Card-127 Volts Read | Card-128 Accept. Volts Read | Card-128 Volts Read |
|--------------------------------|--------------------------------------|---------------------------|--------------------------------------|---------------------------|--------------------------------------|---------------------------|--------------------------------------|---------------------------|
| 1 | 10 ± 0.5 V | 10.0 V |
| 2 | 10 ± 0.5 V | 10.0 V |
| 3 | 10 ± 0.5 V | 10.0 V |
| 4 | 10 ± 0.5 V | 10.0 V |
| 5 | 10 ± 0.5 V | 10.0 V |
| 6 | 10 ± 0.5 V | 10.0 V |
| 7 | 10 ± 0.5 V | 10.0 V |
| 8 | 10 ± 0.5 V | 10.0 V |
| 9 | 10 ± 0.5 V | 10.0 V |
| 10 | 10 ± 0.5 V | 10.0 V |
| 11 | 10 ± 0.5 V | 10.0 V |
| 12 | 10 ± 0.5 V | 10.0 V |
| 13 | 10 ± 0.5 V | 10.0 V |
| 14 | 10 ± 0.5 V | 10.0 V |
| 15 | 10 ± 0.5 V | 10.0 V |
| 16 | 10 ± 0.5 V | 10.0 V |
| 17 | 10 ± 0.5 V | 10.0 V |
| 18 | 10 ± 0.5 V | 10.0 V |

| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|---|--|----------------------------|---|
| (3) Card 25-30947-127. Follow same procedure as number 1 above. | GO Lamp ON. The voltmeter shall read 10 ± 0.5 volts at each setting of the Selector Switch. | OK See Table 3.1.3.2-1. | At Selector switch position #15 & 18, 9.3 V were indicated on the voltmeter. |
| (4) Card 25-30947-128. Follow same procedure as number 1 above. | NO-GO Lamp ON. The voltmeter shall read 10 ± 0.5 volts at each setting of the Selector Switch. | OK See Table 3.1.3.2-1. | |
| (5) Card 25-30947-129. | GO Lamp ON. | OK | This card resulted in a GO but the test did not require 66 seconds. This was due to a misspunched card which checked the timer in the P/G. Using a new card, the test was repeated with acceptable results. |

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| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|------------------------|---|-------------|---|
| (6) Card 25-30947-130 | GO lamp ON. | OK | |
| (7) Card 25-30947-131 | NO-GO lamp ON. | OK | |
| (8) Card 25-30947-132 | GO lamp ON. | OK | |
| (9) Card 25-30947-133 | GO lamp ON. | OK | |
| (10) Card 25-30947-134 | NO-GO lamp ON. | OK | |
| (11) Card 25-30947-135 | GO lamp ON. The stepping switch will scan 4 times during test with an audible pause between scans. | OK | Repeat test but this time push the P/G POWER OFF switch during first scan of stepping switch. |

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| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|--|--|----------------|----------|
| (12) Card 25-30947-136 | GO Lamp ON. | OK | |
| (13) Card 25-30947-137. Repeat test, but this time push the P/G POWER OFF switch during test. | GO Lamp ON. NO-GO Lamp ON. The W/H ALARM, AFS ALARM and WARNING lamps will turn OFF when the P/G POWER OFF switch is depressed. The lamps will turn back ON when switch is released. | OK OK OK | |
| (14) Card 25-30947-138. | GO Lamp ON. The AFS ALARM lamp turns OFF during test. | OK | OK |

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| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|---|--|-------------------------------|----------|
| (15) Card 25-30947-159. Initiate test and observe the START TEST, AFS SAFETY, W/H ALARM, and WARNING Lamps. | <p>The following events take place:</p> <p>A. Shortly after pressing the START TEST switch:</p> <p>(1) The AFS ALARM lamp turns OFF momentarily.</p> <p>(2) The START TEST lamp turns ON.</p> <p>B. After the START TEST lamp turns ON:</p> <p>(1) The W/H ALARM turns OFF.</p> <p>(2) The WARNING lamp starts flashing at 25% duty cycle.</p> | <p>OK</p> <p>OK</p> <p>OK</p> | |

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| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|------------------|---|-------------------------------|----------|
| (15) (Continued) | <p>C. When the V/H ALARM turns OFF, the AFS ALARM lamp starts flashing at 8 cps.</p> <p>D. When the stepping switch starts to scan, the V/H ALARM lamp turns ON, the AFS ALARM lamp goes back to steady ON state, and the WARNING lamp resumes flashing at 4 cps.</p> | <p>OK</p> <p>OK</p> | |
| | <p>60 lamp ON.</p> <p>NO-GO lamp ON.</p> <p>GO lamp ON.</p> | <p>OK</p> <p>OK</p> <p>OK</p> | |

(16) Card 25-30947-140

(17) Card 25-30947-1L1

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| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|------------------------|---|-------------|----------|
| (18) Card 25-30947-142 | GO lamp ON. | OK | |
| (19) Card 25-30947-143 | GO lamp ON. | OK | |
| (20) Card 25-30947-144 | GO lamp ON The V/H ALARM, AFS ALARM and WARNING lamps will turn OFF when the card reader handle is opera- ted UP. The START TEST lamp turns ON. When the stepping switch starts its scan, the lamps will turn back ON. | OK | |
| (21) Card 25-30947-145 | AFS alarm OFF. | OK | |
| (22) Card 25-30947-146 | GO lamp ON. | OK | |
| (23) Card 25-30947-147 | GO lamp ON. | OK | |

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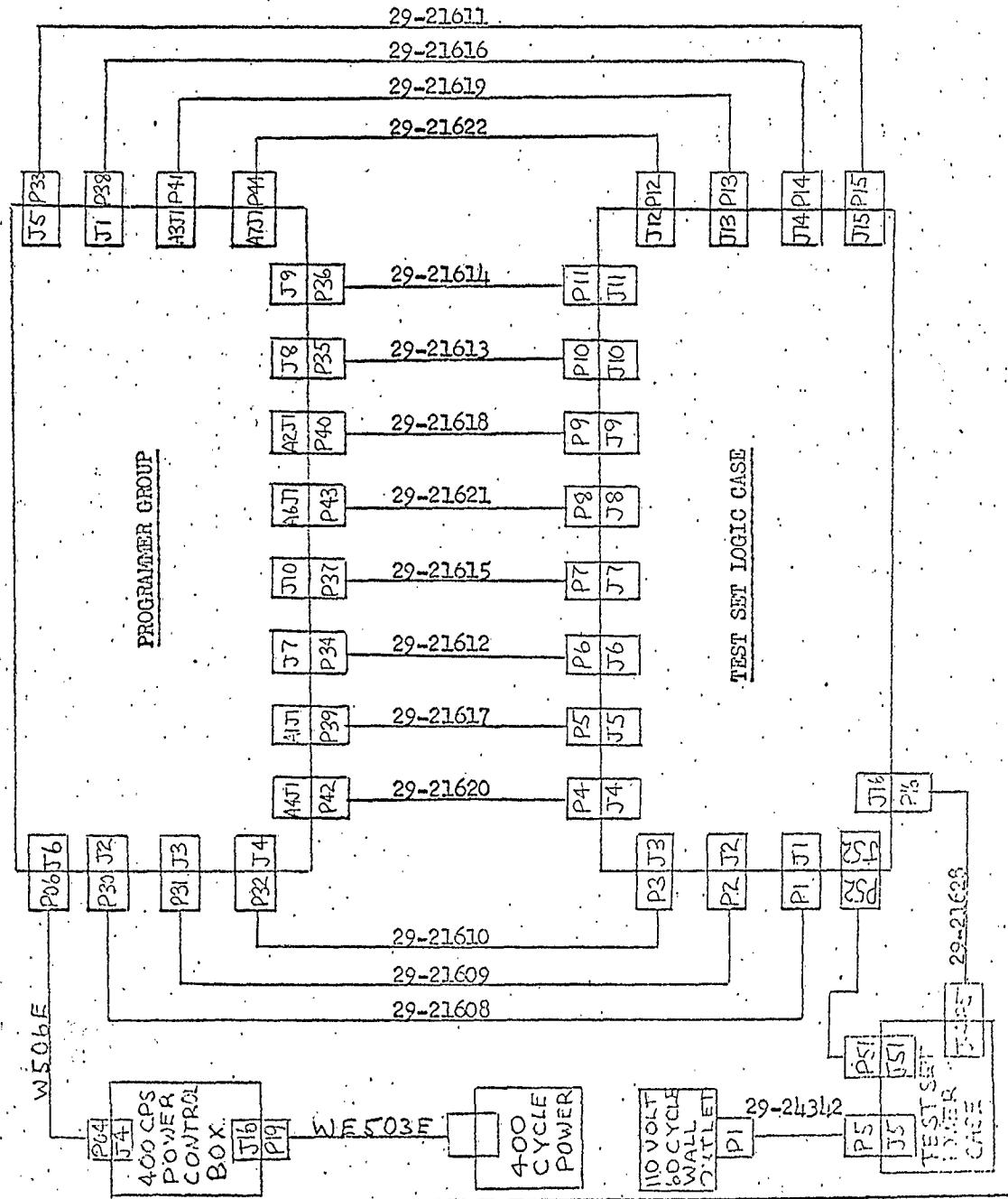
| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|-----------|---|-------------|----------|
| 3.2.0.0 | COMPATIBILITY TEST OF P/G WITH THE P/G TEST SET. | | |
| 3.2.1.0 | Test Set-Up. | | |
| 3.2.1.1 | The P/G must be isolated from all electronic equipment with the exception of its SOURCE POWER SUPPLY and associated P/G Test Set equipment. | | |
| 3.2.1.2 | Apply cooling air to P/G (ref. 2.1.2) | | |
| 3.2.1.3 | Make the cable connections shown in Figure 3.2.1.3-1. | | |

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Figure 3.2.1.3-1
P/G Test Connection



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| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|---|----------------------------|-------------|----------|
| 3.2.1.4 The Dummy Decoder is inserted into Launch Drawer No. 1 of the P/G. | | | |
| 3.2.1.5 Press the TEST SET POWER ON switch. <u>NOTE:</u> The MONITOR POWER ON lamp on the P/G will have been OFF continuously during preceding tests. It will remain ON until the main IF circuit breaker is tripped OFF to replace a faulty P/G drawer. | TEST SET POWER ON lamp ON. | OK. | |
| 3.2.1.6 Press the P/G POWER ON switch. | P/G POWER ON lamps ON. | | OK. |

| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|---|--|----------------------------|----------|
| 3.2.1.4 The Durry Decoder is inserted into Launch Drawer No. 1 of the P/G. | | | |
| 3.2.1.5 Press the TEST SET POWER ON switch. | <u>NOTE:</u> The MONITOR POWER ON lamp on the P/G will have been ON continuously during preceding tests. | TEST SET POWER ON lamp ON. | OK |
| 3.2.1.6 Press the P/G POWER ON switch. | It will remain ON until the main LF circuit breaker is tripped OFF to replace a faulty P/G drawer. | P/G POWER ON lamps ON. | OK |

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| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|-----------|---|-------------|--|
| 3.2.2.0 | Voltage Level Check | | |
| 3.2.2.1 | P/G. Monitor Power ON Only | | |
| 3.2.2.2 | Measure the voltages at the Range and Selector positions on the Test Set as specified in Table 3.2.2.2-1. Record the results of each test on specified Table. | | See Table 3.2.2.2-1. |
| 3.2.2.3 | P/G Monitor and Test Power ON | | |
| 3.2.2.4 | | | Measure the voltages at the Range and Selector positions on the Test Set as specified in Table 3.2.2.4-1. Record |

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| | | RANGE | | | | | | | | | |
|----|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|
| | | +20 Volts DC | | | -20 V DC | | | +40 V DC | | -40 V DC | |
| 1 | 1 | Accept Volts | Volts Read |
| 1 | 0 to 2 | 0 | 0 to 5 | 0 | 0 to 5 |
| 2 | 0 to 0.5 | 0 | 28 ± 1 | 27.8 | 0 |
| 3 | 10 ± 0.5 | 10.3 | | | | | 10 ± 0.5 | 10.3 | 0 to 0.5 | 0 | |
| 4 | 0 to 0.5 | 0 | 28 ± 1 | 27.8 | |
| 5 | 10 ± 0.5 | 10.3 | | | | | 10 ± 0.5 | 10.3 | 0 to 0.5 | 0 | |
| 6 | 0 to 0.5 | 0 | |
| 7 | 10 ± 0.5 | 10.3 | | | | | 10 ± 0.5 | 10.3 | 28 ± 1 | 27.8 | |
| 8 | 0 to 0.5 | 0 | |
| 9 | 10 ± 0.5 | 10.3 | | | | | 10 ± 0.5 | 10.3 | 28 ± 1 | 27.8 | |
| 10 | 10 ± 0.5 | 10.3 | | | | | 0 to 0.5 | 0 | 0 to 0.5 | 0 | |
| 11 | 0 to 0.5 | 0 | 0 to 0.5 | 0 | 0 to 0.5 | 0 | 10 ± 0.5 | 10.3 | 28 ± 1 | 27.8 | |
| 12 | 11.5 ± 0.5 | 11.4 | 0 to 2 | 0 | 0 to 2 | 0 | 17.5 ± 2.5 | 18.3 | 28 ± 1 | 27.8 | |
| 13 | 17 ± 2 | 17.5 | | | | | 17.5 ± 2.5 | 18.3 | 36 ± 3 | 35.0 | |
| 14 | 17 ± 2 | 17.5 | | | | | | | | | |
| 15 | 17 ± 2 | 17.5 | | | | | | | | | |
| 16 | 17 ± 2 | 17.5 | | | | | | | | | |
| 17 | | | | | | | | | | | |
| 18 | | | | | | | | | | | |

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TABLE 3.2.2-2-1

| RANGE | | | | | | | | | | | | |
|-------|-----------------|---------------|-----------------|---------------|-----------------|---------------|-----------------|---------------|-----------------|---------------|-----------------|---------------|
| | +20 Volts DC | | | -20 V DC | | | +40 V DC | | | -40 V DC | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | | | | | | |
| 1 | Accept Volts | Volts Read |
| 1 | 10 ± 0.5 | 10.0 | 28 ± 1 | 28.5 | 30 ± 1 | 30.0 |
| 2 | \uparrow | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | 10 ± 0.5 | 10.0 | | | | | 10 ± 0.5 | 10.0 | | | | |
| 12 | 11.5 ± 0.5 | 11.4 | 10 ± 0.5 | 10.0 | | | 17.5 ± 2.5 | 17.1 | 28 ± 1 | 28.5 | | |
| 13 | 17 ± 2 | 17.1 | | | | | 17.5 ± 2.5 | 17.1 | 36 ± 3 | 36.0 | | |
| 14 | 17 ± 2 | | \downarrow | | | | | | 36 ± 3 | 36.0 | | |
| 15 | 17 ± 2 | | \uparrow | | | | | | | | | |
| 16 | 17 ± 2 | | \uparrow | | | | | | | | | |
| 17 | | | | | | | | | | | | |
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TABLE 3.2.2.4-1

| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|------------------|---|-------------|--|
| (1) 25-31059-106 | | | |
| | NOTE: This test shall be performed prior to any other test. | GO Lamp ON | OK |
| (2) 25-31059-107 | | | OK |
| (3) 25-31059-108 | | | OK |
| (4) 25-31059-109 | | | OK |
| (5) 25-31059-110 | | GO Lamp ON | OK |
| | | | |
| 3.2.4.0 | | | |
| | End to End Test | | |
| 3.2.4.1 | | | Select punched cards (25-26642-165 thru 25-26642-252) for End-to-End Test. |

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| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|---------------------|--|-------------|---|
| 3.2.2.4 (Continued) | the results of each test on specified table. | | |
| 3.2.3.0 | Phase Supply Voltage Test | | <p>3.2.3.1 Select punched cards (25-31059-106 thru 25-31059-110) to check the phase supply voltage in each of the five drawers.</p> <p>3.2.3.2 Follow paragraphs 3.1.2.1 thru 3.1.2.5 of this volume starting with card 25-31059-106.</p> <p>NOTE: For more detail on function of these cards, see D2-12636 Volume I.</p> |

| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|-----------|---|--|---|
| 3.2.4.2 | <p>Follow paragraphs 3.1.2.1 thru 3.1.2.5 of this volume and additional instructions stated in the procedure for each card, starting with card 25-26642-165.</p> <p><u>NOTE:</u> For more detail on function of these cards, see D2-12636</p> | <p>GO lamp ON</p> <p>(1) 25-26642-165</p> <p>(2) 25-26642-166</p> <p>(3) -168</p> <p>(4) -169</p> <p>(5) -170</p> <p>(6) -171</p> <p>(7) -172</p> <p>(8) -173</p> <p>(9) -174</p> <p>(10) 25-26642-175</p> | <p>OK</p> |

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| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|---------------------|-------------------|-------------|------------|
| 3.2.4.2 (Continued) | | | |
| (11) | 25-26642-176 | | GO lamp ON |
| (12) | -177 | | OK |
| (13) | -178 | | |
| (14) | -179 OMIT | | |
| (15) | -180 | | |
| (16) | -181 | | |
| (17) | -182 | | |
| (18) | -183 | | |
| (19) | -184 | | |
| (20) | -185 | | |
| (21) | -186 OMIT | | |
| (22) | -187 | | |
| (23) | -188 | | |
| (24) | -1899 | | |
| (25) | -190 | | |
| (26) | -191 | | |
| (27) | 25-26642-192 OMIT | | GO lamp ON |
| | | | OK |

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| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|---------------------|-----------------|-------------|----------|
| 3.2.4.2 (Continued) | | | |
| (28) 25-26642-193 | -194 | GO lamp ON | OK ↑ |
| (29) | -194 | | |
| (30) | -195 | | |
| (31) | -196 | | |
| (32) | -197 | | |
| (33) | -198 | | |
| (34) | -199 | | |
| (35) | -200 | | |
| (36) | -201 | | |
| (37) | -202 | OFF | |
| (38) | -203 | OFF | |
| (39) | -204 | | |
| (40) | -205 | | |
| (41) | -206 | | |
| (42) | -207 | | |
| (43) | -208 | | |
| (44) 25-26642-209 | | GO lamp ON | OK ↓ |

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| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|-------------------|-----------------|-------------|----------|
| (45) 25-26642-210 | GO lamp ON | OK | |
| (46) -211 | | ↑ | |
| (47) -212 | ONTF | | |
| (48) -213 | ONTF | | |
| (49) -214 | | | |
| (50) -215 | | | |
| (51) 25-26642-216 | GO lamp ON | OK | |

3.2.4.3

Card 25-26642-216

3.2.4.4

Select punched card 25-26642-216.

3.2.4.5

Follow paragraph 3.2.1.

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| PROCEDURE | ACCEPTABLE DATA | RECORD | COMMENTS |
|-----------|--|----------------------|----------|
| 3.2.4.6 | Wait 10 ± 2 minutes and then push START TEST button. | NO-GO lamp ON. OK | |
| 3.2.4.7 | Open and close the card reader and wait another 10 ± 2 minutes; then follow paragraphs 3.1.2.1 thru 3.1.2.4. | GO lamp ON. OK | |
| 3.2.4.8 | Card 25-26642-217 | | |
| 3.2.4.9 | Select punched card 25-26642-217. | | |
| 3.2.4.10 | Follow paragraph 3.1.2.1. | | |

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| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|-----------|---|-------------|----------|
| 3.2.4.11 | Depress the SHUT DOWN LAUNCH FACILITY button on the P/G. | | |
| | CONTINUE TO HOLD BUTTON DOWN THROUGHOUT THIS CARD TEST. Release only after GO or NO-GO is received. | | |
| 3.2.4.12 | Follow paragraphs 3.1.2.2 thru 3.1.2.4. GO Lamp ON. | OK | |
| 3.2.4.13 | Card 25-26642-218. | | |
| 3.2.4.14 | Select punched card 25-26642-218. | | |
| 3.2.4.15 | Follow paragraph 3.2.1. | | |

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| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|-----------|--|-------------|----------|
| 3.2.4.16 | Depress the P/G POWER OFF switch on the EGS-74 to initiate shut down. <u>KEEP DEPRESSED FOR DURATION OF TEST.</u> | | |
| 3.2.4.17 | Follow paragraphs 3.1.2.1 thru 3.1.2.4. GO lamp ON. <u>NOTE:</u> To start up after the foregoing test, depress P/G POWER ON switch. | OK | |
| 3.2.4.18 | Select punched cards (25-26642-219 thru 25-26642-232). | | |
| 3.2.4.19 | Follow paragraphs 3.1.2.1 thru 3.1.2.5 of this volume starting with card 25-26642-229. | | |

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| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|-----------|--|---|---|
| 3.2.5.2 | Follow paragraphs 3.1.2.1 thru 3.1.2.5 of this volume starting with card 25-26643-120. | (1) 25-26643-120 (2) -121 (3) -122 OMLT (4) -123 (5) -124 (6) -125 (7) -126 (8) -127 (9) -128 (10) -129 (11) 25-26643-130 | GO lamp ON. ↑ OK ↓ OK Volume III. GO lamp ON. ↑ OK ↓ OK |

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| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|--|-------------------|---|--|
| 3.2.5.2 (Continued) | | | |
| (12) 25-26643-131 (13) -132 (14) -133 (15) -134 (16) -135 (17) -136 (18) -137 (19) 25-26643-138 | GO LAMP ON. OK | GO LAMP ON. OK | |
| 3.2.6.0 | | | Programmer Launch Sequence Drawer Test |
| 3.2.6.2 | | Select punched cards (25-26644-128 thru 25-26644-155) | |
| 3.2.6.2 | | Follow paragraphs 3.1.2.1 thru 3.1.2.5 of this volume starting with 25-26644-128. | |

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| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|---------------------|---|-------------|----------|
| 3.2.6.2 (Continued) | <p>NOTE: For more detail on function of these cards, see D2-12636 Vol. IV.</p> <p>(1) 25-26644-128 (2) -129 (3) -130 (4) -131 (5) -132 (6) -133 (7) -134 (8) -135 (9) -136 (10) -137 (11) -138 (12) -139 (13) -140 (14) 25-26644-141</p> | | |

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| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|---------------------|-----------------|-------------|----------|
| 3.2.6.2 (continued) | | | |
| (15) 25-26644-142 | GO lamp ON. | OK | |
| (16) -143 | | | |
| (17) -144 | | | |
| (18) -145 | | | |
| (19) -146 | | | |
| (20) -147 | | | |
| (21) -148 | | | |
| (22) -149 | | | |
| (23) -150 | | | |
| (24) -151 | | | |
| (25) -152 | | | |
| (26) -153 | | | |
| (27) -154 | | | |
| (28) 25-26644-155 | GO lamp ON | OK | |

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| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS | | | | | | | | | | | | | | | | | | |
|------------------|---|-------------|--|------------------|---|------------|----------|---|--|----------|---|--|----------|---|--|----------|---|--|------------------|---|------------|
| 3.2.7.0 | Programmer Calibrator Test Drawer Test | | | | | | | | | | | | | | | | | | | | |
| 3.2.7.1 | Select punched cards (25-26645-128 thru 25-26645-157) | | | | | | | | | | | | | | | | | | | | |
| 3.2.8.2 | Follow paragraphs 3.1.2.1 thru 3.1.2.5 of this volume, starting with card 25-26645-128. | | <p>NOTE: For more detail on function of these cards, see D2-12636,</p> <p>Volume V.</p> <table> <tr> <td>(1) 25-26645-128</td> <td>↑</td> <td>GO lamp ON</td> </tr> <tr> <td>(2) -129</td> <td>↑</td> <td></td> </tr> <tr> <td>(3) -130</td> <td>↑</td> <td></td> </tr> <tr> <td>(4) -131</td> <td>↑</td> <td></td> </tr> <tr> <td>(5) -132</td> <td>↑</td> <td></td> </tr> <tr> <td>(6) 25-26645-133</td> <td>↓</td> <td>GO lamp ON</td> </tr> </table> | (1) 25-26645-128 | ↑ | GO lamp ON | (2) -129 | ↑ | | (3) -130 | ↑ | | (4) -131 | ↑ | | (5) -132 | ↑ | | (6) 25-26645-133 | ↓ | GO lamp ON |
| (1) 25-26645-128 | ↑ | GO lamp ON | | | | | | | | | | | | | | | | | | | |
| (2) -129 | ↑ | | | | | | | | | | | | | | | | | | | | |
| (3) -130 | ↑ | | | | | | | | | | | | | | | | | | | | |
| (4) -131 | ↑ | | | | | | | | | | | | | | | | | | | | |
| (5) -132 | ↑ | | | | | | | | | | | | | | | | | | | | |
| (6) 25-26645-133 | ↓ | GO lamp ON | | | | | | | | | | | | | | | | | | | |

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| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|---------------------|-----------------|-------------|----------|
| 3.2.7.2 (Continued) | | | |
| (7) 25~26645~134 | GO lamp ON. | OK | |
| (8) -135 | | | |
| (9) -136 | | | |
| (10) -137 | | | |
| (11) -138 | | | |
| (12) -139 | | | |
| (13) -140 | | | |
| (14) -141 | | | |
| (15) -142 | | | |
| (16) -143 | | | |
| (17) -144 | | | |
| (18) -145 | | | |
| (19) -146 | | | |
| (20) -147 | | | |
| (21) -148 | | | |
| (22) 25~26645~149 | GO lamp ON. | OK | |

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|-----------|-----|---|------|---------|
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| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|--|-------------------|-------------|--|
| 3.2.7.2 (Continued) | | | |
| (23) 25-26645-150 (24) -151 (25) -152 (26) -153 (27) -154 (28) -155 (29) -156 (30) 25-26645-157 | GO lamp ON. OK | OK | Monitor Launcher Missile Status. Drawer Test |

3.2.8.0

Monitor Launcher Missile Status. Drawer Test

3.2.8.1
Select punched cards (25-26646-137
thru 25-26646-172)

3.2.8.2

Follow paragraphs 3.1.2.1 thru 3.1.2.5
of this volume, starting with card
25-26646-137.

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| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|---------------------|-----------------|-------------|----------|
| 3.2.8.2 (Continued) | | | |
| (1) 25-26646-157 | | GO lamp ON | OK |
| (2) -138 | OMIT | | |
| (3) -139 | | | |
| (4) -140 | | | |
| (5) -141 | | | |
| (6) -142 | | | |
| (7) -143 | | | |
| (8) -144 | | | |
| (9) -145 | | | |
| (10) -146 | | | |
| (11) -147 | OMIT | | |
| (12) -148 | | | |
| (13) -149 | OMIT | | |
| (14) -150 | | | |
| (15) -151 | OMIT | | |
| (16) -152 | OMIT | | |
| (17) 25-26646-153 | | GO lamp ON | OK |

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| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|---------------------|-----------------|-------------|----------|
| 3.2.6.2 (Continued) | | | |
| (18) 25-26646-154 | | GO lamp ON. | OK |
| (19) -155 | | | ↑ |
| (20) -156 | | | |
| (21) -157 | | | |
| (22) -158 | | | |
| (23) -159 | | | |
| (24) -160 | | | |
| (25) -161 | OMIT | | |
| (26) -162 | | | |
| (27) -163 | | | |
| (28) -164 | | | |
| (29) -165 | | | |
| (30) -166 | | | |
| (31) -167 | | | |
| (32) -168 | | | |
| (33) -169 | | | |
| (34) 25-26646-170 | | GO lamp ON | OK |

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| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|---------------------|-----------------|-------------|----------|
| 3.2.8.2 (Continued) | | | |
| (35) 25-26646-170 | GO lamp ON. | OK | |
| (36) 25-26646-171 | GO lamp ON. | OK | |
| (37) 25-26646-172 | GO lamp ON. | OK | |
| 3.3.8.3 | | | |
| | Test Complete. | | |

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4.0.0

CONCLUSION

4.0.1

The EDIT II-1 tests demonstrated that the Programmer Group and Programmer Group Test Set are physically, functionally, and electrically compatible. The problems noted in the summary of this report, while not serious, have been corrected.

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THE BOEING COMPANY

NUMBER T2-2548 MODEL NO. WS-133A
TITLE Engineering Development Integration Test No. Two
(EDIT II-1) - Test Log

2-5142

PREPARED BY

N. L. Noe 5/14/62

D. M. Viehouser 5/14/62

SUPERVISED BY

E. G. Hellings 5/14/62

APPROVED BY

J.W. Hampton 5/14/62

RELIABILITY APPROVAL

J.W. Hampton

(DATE)

SECTION TITLE PAGE U3 4288 0000 REV. 2/61

AF 04(748)-289

CONTRACT NO.

5-78105-8640-68956

CHARGE NUMBER

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1.0.0 MANUFACTURING & INSPECTION RECORD - TEST LOG

1.0.1 The M&IR Test Log shows the test results recorded during EDIT II-1. The compatibility of the P/G and P/G Test Set was satisfactorily demonstrated on 30 March 1962, with representatives of BSD/STL attending the demonstration. Boeing Quality Control verification was not required for the Test Log.

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BOEING | VOL. 2 | NO. T2-2548 →
| SEC. 2 | PAGE 2

| TEST NUMBER | | TEST PLANNING | | MANUFACTURING AND INSPECTION RECORD | | PAGE OF | DATE |
|---|-----------------------|-----------------------------------|------------------|-------------------------------------|---------------------------|--------------------------------|-----------------------|
| EDIT II-1 | D2-13308 | UNIT SERIAL NUMBER P/G 0000001 | BY DATE | PAGE SER. NO. | TEST LOG | 23 | 23 |
| VOL. 2 | | P/G Test Set | | | | | |
| 002 | | WORK ORDER NO. | | | | | |
| ITEM NO. | TEST ITEM SER. NO. | TEST PLANNING ITEM NO. | WORK ITEM NO. | TEST PLANNING BY DATE | TEST PLANNING ITEM NO. | TEST PLANNING PAGE SER. NO. | TEST PLANNING DATE |
| WS 133 A | | | | 78105 | EW A 08-956 | | 3-10-62 |
| <p>The purpose of this Test is to determine and demonstrate the compatible operation of the BC-1 Programmer Group, Fig. A 1201 and the Programmer Group Test Set, Fig. A 3092. This Test is to be conducted in accordance with D2-13308 Vol. 2.</p> | | | | | | | |
| <p>Vol. 2 Sec. 2</p> <p>T2-2548 Page 3</p> | | | | | | | |
| PLACE | | JOB NUMBER | | NOMENCLATURE | | LEAD INS. INSP. REC. | |
| 25-29278-2 | | 61347 | | Programmer Group (P/G) | | STAMP | DATE |
| P/G TEST SET | | | | | | CUS. | |
| PART NUMBER | | T2-2548 | | | | | |

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| PAGE | JOB NUMBER | PART NUMBER | NOMENCLATURE | | LEAD INSP. | | INSP. REG. | |
|------|------------|---------------------------|------------------------|---------------------------|------------|------|------------|------|
| | | | OF | | STAMP | DATE | STAMP | DATE |
| 1 | 61347 | 25-22036-70 25-29278-2 | | Programmer Group (P/G) | | | | CUS. |
| | | | 434400 5605 ORIG. 6/60 | D/C Tact + cat | | | | |

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| TEST NUMBER | | | | UNIT SERIAL NUMBER | | TEST PLANNING | | MANUFACTURING AND INSPECTION RECORD | | | | PAGE OF | DATE |
|-----------------------------|------------|-------------------------|----------------|------------------------|---|---------------|-----------|-------------------------------------|--------------|----------------------|----------|---------------|-------------|
| EDIT II-1 D2-133C4 Vol.2 | | | | P/G Test Set C02 | | BY DATE | | TEST LOG | | | | PAGE SER. NO. | |
| | | | | | | | | PLANNING BUDGET | | | | | |
| TEST ITEM | ITEM NO. | WORK ORDER NO. | WORK ORDER NO. | TIME | TEST ITEM | TEST ITEM | TEST ITEM | AUTHORITY | VERIFICATION | OPERATION COMPLETION | | REF E.R. | |
| WORK NO. | ITEM NO. | ITEM NO. | ITEM NO. | TIME | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | SER. NO. | SHOP |
| W5 133A | | | | | 78105 | EWA 08-956 | | | | | | | INSP. ENCR. |
| 1830 | | | | | Start-up at 0681.0 Hrs. on elapsed time meter. | | | | | | | | |
| 1845 | | | | | Re-ran all No-Go cards to verify fault | | | | | | | | |
| | | | | | Note: Checked ϕ_1 and ϕ_2 with scope. Both P/G phase supply voltage rise times were close to lower limit (5u-sec) | | | | | | | | |
| 1945 | | | | | Re-ran cards indicating No-Gos with P/G Test SET rise time evaluation inhibited. | | | | | | | | |
| | | | | | Note: Cards -106 and -107 Phase Supply -214 End-to-End -155 Page 2548 10 | | | | | | | | |
| | | | | | Launch Drawer #2, and -152, -154, -156 Sequencer Drawer reset all in No-Gos | | | | | | | | |
| PAGE | JOB NUMBER | PART NUMBER | | NOMENCLATURE | | | | LEAD INSP. | INSP. REG. | | | | |
| OF | 61347 | TC | | Programmer Group (P/G) | | | | STAMP DATE | STAMP DATE | CUS. | | | |
| | | 25-22036-70 | | P/G Test Set | | | | | | | | | |
| | | 25-20278-2 | | | | | | | | | | | |
| | | 03 4400 5605 ORIG. 6/60 | | | | | | | | | | | |

| TEST NUMBER | | UNIT SERIAL NUMBER | | TEST PLANNING | | MANUFACTURING AND INSPECTION RECORD | | PAGE OF | DATE |
|-------------|-------------------------|--|----------|----------------|------------|-------------------------------------|---------------|---------|------|
| TEST NUMBER | TEST ITEM | UNIT SERIAL NUMBER | TEST SET | BY | DATE | TEST LOG | PAGE SER. NO. | OF | |
| MODEL NO. | TEST ITEM | WORK ORDER NO. | TEST SET | WORK ORDER NO. | TEST SET | PLANNING BUDGET | VERIFICATION | | |
| W3 | 133 A | SER. NO. | | | | | | | |
| TIME | CONDITION | WORK ITEM | NO. | | | | | | |
| 14:00 | | Start-up at 0684.9 Hrs. on elapsed time meter. | | | | | | | |
| 14:10 | | Ran tests on all No-go Cards to determine faults. | | | | | | | |
| 16:45 | | Shutdown at 0687.5 Hrs. on elapsed time meter. | | | | | | | |
| | | VOL. Sec. | 2 2 | | | | | | |
| | | T2-2548 Page 11 | | | | | | | |
| PAGE | JOB NUMBER | NOMENCLATURE | | LEAD INSP. | INSP. REG. | | | | |
| OF | 61347 | Programmer Group (P/G) | | STAMP DATE | STAMP DATE | CUS. | | | |
| | U3 4400 5605 ORIG. 6/60 | 25-22036-70 25-29278-2 P/G Test Set | | | | | | | |

| TEST NUMBER | | TEST PLANNING | | MANUFACTURING AND INSPECTION RECORD | | PAGE OF |
|-----------------------------|-----------|--|-----------------------|-------------------------------------|---------------------------------|----------------|
| TEST ITEM | TEST TEAM | UNIT SERIAL NUMBER | BY DATE | PAGE SER. NO. | TEST LOG | 2 |
| EDIT II-1 D2-13308 Vol.2 | W.S. 133A | P/60000001 P/G Test Set-002 | 78105 | EWA 08-956 | PLANNING BUDGET VERIFICATION | DATE 3/1/91 |
| WORK ORDER NO. | SER. NO. | WORK ITEM NO. | REF. E.R. SER. NO. | OPERATION COMPLETION SHOP INSP. | ENGR. | |
| 000 | | Start-up at 0687.5 Hrs. on elapsed time meter | | | | Dm |
| 1010 | | 3.2.2.3 A Phase Supply Voltage Test (Completed) OK. (page 4) | | | | Dm |
| | | Note: Cards -106 and -107 were re-programmed. | | | | |
| 1100 | | 3.2.4.0 A End-to-End Tests (page 5) (Completed) OK. | | | | Dm |
| | | Note: Card-218 was re-program- med and card-228 was corrected by recalibration of D/G Test Set. (Page 10) | | | | |
| | | Vol. Sec. 2 2 | | T2-2548 Page 13 | | |

| PAGE | JOB NUMBER | PART NUMBER | NOMENCLATURE | LEAD INSP. STAMP | INSP. REG. DATE | CUS. |
|------|----------------------------------|-----------------------------------|--|---------------------|--------------------|------|
| OF | 61347 U3 4400 5605 ORIG. 6/60 | 16 2.5-22036-70 2.5-29278-2 | Programmer G-16 (P/G) P/G Test Set | | | |

96

| TEST NUMBER | | | | UNIT SERIAL NUMBER | TEST PLANNING | PAGE OF | PAGE OF |
|-----------------------|------------------------------|--|---------------|------------------------|----------------------|------------------|------------------|
| TEST ITEM | TEST ITEM | TEST ITEM | TEST ITEM | BY DATE | TEST LOG | PAGE SER. NO. | TEST LOG |
| MODEL NO. | SER. NO. | WORK ITEM NO. | WORK ITEM NO. | WORK ORDER NO. | AUTHORITY | PLANNING BUDGET | DATE |
| EDIT II-1 D2-13308 | Vol. 2 P/G Test Set Q2 | 78105 | EWA 08-956 | VERIFICATION | 3-10-6 | | |
| TIME | CONDITION | WORK ITEM NO. | WORK ITEM NO. | REF. E. R. SER. NO. | OPERATION COMPLETION | SHOP | INSP. |
| TIME | CONDITION | WORK ITEM NO. | WORK ITEM NO. | ENGR. | | | |
| 1130 | | 3.2.5.0A Timeic Sequential Drawer Test | | | | | |
| | | Page 6 (Completed) OK | | | | | |
| | | Note: Formerly Launch Drawer | | | | | |
| | | No. 1 Test. | | | | | |
| | | Note: Cards -120, -121, -126, -127, -128 and -137 resulted in G's. Trouble was \emptyset | | | | | |
| | | Voltage Tests which have been recalibrated. page 10. | | | | | |
| 1145 | | 3.2.6.0A Programmer Launch Sequence Drawer Test Page 6 (Completed) | | | | | |
| | | OK. | | | | | |
| | | Note: Formerly Launch Drawer No. 2. Test. | | | | | |
| | | Page 2548 14 | | | | | |
| | | Note: Card -155 was re- programmed at resulted in a Go. | | | | | |
| PAGE | JOB NUMBER | NOMENCLATURE GROUP | | | | LEAD INSP. STAMP | INSP. REG. STAMP |
| OF | 61347 | Programmer (P/G) | | | | DATE | DATE |
| | | 25-22036-70 | | | | | CUS. |
| | | 25-29278-2 | | | | | |
| | | P/G Test Set | | | | | |
| | | U3 4400 5605 ORIG. 5/60 | | | | | |

1

| MANUFACTURING AND INSPECTION RECORD | | | | | | PAGE OF | DATE |
|-------------------------------------|--------------------|---------------|---------------------------|---------------|----------------------|------------|----------------------|
| TEST PLANNING | | | PAGE SER. NO. | TEST LOG | | | |
| NUMBER | UNIT SERIAL NUMBER | TEST DATE | | TEST PLANNING | TEST | BUDGET | |
| MODEL NO. | WORK ORDER NO. | AUTHORITY | | VERIFICATION | | | |
| TEST ITEM | SER. NO. | REF E. R. | OPERATION COMPLETION | REF E. R. | OPERATION COMPLETION | REF E. R. | OPERATION COMPLETION |
| TIME | CONDITION NO. | WORK ITEM NO. | | SHOP | INSP. | SHOP | INSP. |
| 13:00 | | 3,2,3,0 C | (Completed) | OK | | | OK |
| 13:30 | | 3,2,4,0 C | (Completed) | OK | | | OK |
| 13:45 | | 3,2,5,0 C | (Completed) | OK | | | OK |
| 14:00 | | 3,2,6,0 C | (Completed) | OK | | | OK |
| 14:15 | | 3,2,7,0 C | (CompleteTech) | OK | | | OK |
| 14:30 | | 3,2,8,0 C | (Completed) | OK | | | OK |
| 15:00 | Vol. Sec. | 3,2,3,0 D | (Completed) | OK | | | OK |
| 15:15 | T2-Page | 3,2,4,0 D | (Completed) | OK | | | OK |
| 15:30 | | 3,2,5,0 D | (Completed) | OK | | | OK |
| PAGE | | JOB NUMBER | NOMENCLATURE | | LEAD INSP. | INSP. REG. | |
| OF | | 61347 | Programmer Group (A/C) | | STAMP DATE | STAMP DATE | CUS. |
| | | | 25-22036-70 | | | | |
| | | | 25-220278-2 | | | | |
| | | | P/C Test Set | | | | |

19

E9 -

| TEST NUMBER | | UNIT SERIAL NUMBER | | TEST PLANNING | | MANUFACTURING AND INSPECTION RECORD | | PAGE | OF |
|-----------------------|-------------------------|--------------------|------------|---------------|---------------|-------------------------------------|----------------------|--------|------|
| TEST NUMBER | ITEM | UNIT SERIAL NUMBER | BY | DATE | TEST LOG | PAGE SER. NO. | PLANNING BUDGET | 1 | 2 |
| MODEL NO. | TEST ITEM | WORK ORDER NO. | ITEM NO. | TEST ITEM NO. | TEST ITEM NO. | AUTHORITY | VERIFICATION | DATE | |
| EDIT II-1 D2-133C8 | Vol.2 P/G TEST SetC2 | 78105 | EW.A | 08-956 | | REF E. R. SER. NO. | OPERATION COMPLETION | 3/21/1 | |
| W.S. 133 A | | | | | | STOP • THRP. • ENTER • | | | |
| 0800 | | | | | | | | | 10M |
| 0815 | | | | | | | | | 10M |
| 0830 | | | | | | | | | 10M |
| 0900 | | | | | | | | | 10M |
| 0915 | | | | | | | | | 10M |
| 1000 | | | | | | | | | 10M |
| 1100 | | | | | | | | | 10M |
| 1115 | | | | | | | | | 10M |
| 1130 | | | | | | | | | 10M |
| NOMENCLATURE | | | | | | | | | |
| PAGE | JOB NUMBER | 25-22036-70 | Programmer | Group | Lend Infr. | Infr. Reg. | Stamp | Stamp | CUS. |
| OF | 61347 | 25-29278-2 | (P/G) | | | | | | |
| | 134400 500S CRIC G/GO | P/G Test Set | | | | | | | |

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| TEST NUMBER | | | | UNIT SERIAL NUMBER | | | | TEST PLANNING | | MANUFACTURING AND INSPECTION RECORD | | | | PAGE OF | DATE |
|----------------------------------|-----------|-----------|----------|--------------------|-----------|-----------|-------------|----------------|----------------------|-------------------------------------|------|---------------|-----------------|------------|------|
| ED17 II-1 | | | | P1/G COCCCC001 | | | | BY | DATE | TEST LOG | | PAGE SER. NO. | PLANNING BUDGET | DATE | |
| D2-139CS Vol.2 P1/G Test Set 002 | | | | | | | | WORK ORDER NO. | | EW A 08-056 | | VERIFICATION | | | |
| MODEL NO. | TEST ITEM | TEST ITEM | SER. NO. | TIME | CONDITION | WORK ITEM | NO. | REF E. R. | OPERATION COMPLETION | SER. NO. | SHOP | INSP. | ENGR. | | |
| W S 133A | | | | 0800 | | 3.2.2.0 B | (Completed) | OK | | | | | | DM | |
| | | | | 0830 | | 3.2.3.0 C | (Completed) | OK | | | | | | DM | |
| | | | | 0900 | | 3.2.4.0 G | (Completed) | OK | | | | | | DM | |
| | | | | 0915 | | 3.2.5.0 G | (Completed) | OK | | | | | | DM | |
| | | | | 0930 | | 3.2.6.0 G | (Completed) | OK | | | | | | DM | |
| | | | | 0945 | | 3.2.7.0 G | (Completed) | OK | | | | | | DM | |
| | | | | 1000 | Vol. | 3.2.8.0 G | (Completed) | OK | | | | | | DM | |
| | | | | | Sec. | 2 | 2 | | | | | | | | |
| | | | | 1100 | | T2-2548 | | | | | | | | | |
| | | | | | | Page 21 | | | | | | | | | |
| | | | | 1130 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

| PAGE | JOB NUMBER | NOMENCLATURE | LEAD INSP. | INSP. REG. | |
|------|--------------------------|---------------|------------|------------|------|
| OF | 61347 | P1/G | STAMP | STAMP DATE | CUS. |
| | 61347 | P1/G | | | |
| | 03 4400 5605 ORIG. 6/60. | P1/G Test Set | | | |

| TEST NUMBER | | | | UNIT SERIAL NUMBER | | TEST PLANNING | | MANUFACTURING AND INSPECTION RECORD | | | | PAGE |
|-----------------------------|-----------|----------------|-----------------------|--------------------|-----------|-----------------|--------------|-------------------------------------|----------------------|-------|------------|------------|
| EDIT II-1 D2-133CS VOL.2 | | | | P/G-TEST SET C02 | | BY DATE | | TEST LOG | | | | OF |
| | | | | | | | | PAGE SER. NO. | | | | 2 |
| MODEL NO. | TEST ITEM | WORK ORDER NO. | AUTHORITY | WORK ORDER NO. | AUTHORITY | PLANNING BUDGET | VERIFICATION | REF. E.R. | OPERATION COMPLETION | DATE | LEAD INSP. | INSP. REG. |
| W/S 133A | SER. NO. | | | | | | | SER. NO. | SHOP | INSP. | STAMP | DATE |
| TIME | CONDITION | WORK ITEM NO. | | | | | | | | | | CUS. |
| 1200 | | | 3.2.5.0 H (Completed) | OK | | | | | | | | |
| 1215 | | | 3.2.6.0 H (Completed) | OK | | | | | | | | |
| 1230 | | | 3.2.7.0 H (Completed) | OK | | | | | | | | |
| 1300 | | | 3.2.8.0 H (Completed) | OK | | | | | | | | |
| 1330 | | | 3.2.3.0 T (Completed) | OK | | | | | | | | |
| 1345 | | | 3.2.4.0 T (Completed) | OK | | | | | | | | |
| 1400 | Vol. Sec. | 2 2 | 3.2.5.0 T (Completed) | OK | | | | | | | | |
| 1415 | T2 Page | 2548 22 | 3.2.6.0 T (Completed) | OK | | | | | | | | |
| 1430 | | | 3.2.7.0 T (Completed) | OK | | | | | | | | |

| PAGE | JOB NUMBER | ITEM NUMBER | PROGRAMMER | LEAD INSP. |
|------|------------|-------------|--------------|-------------------------|
| OF | 61347 | 25-22036-70 | G (P/G) | INSP. REG. |
| | 61347 | 25-29278-2 | P/G Test Set | STAMP DATE |
| | | | | U3 4400 5605 ORIG. 6/80 |

| MANUFACTURING AND INSPECTION RECORD | | | | PAGE OF |
|-------------------------------------|--------------------|--------------------------|------------------------------------|------------------------------------|
| TEST NUMBER | UNIT SERIAL NUMBER | TEST PLANNING | PAGE SER. NO. | 2 |
| | P/G OC00001 | BY DATE | | 2 |
| TEST ITEM | WORK ORDER NO. | AUTHORITY | PLANNING BUDGET | TEST LOG |
| TEST ITEM | WORK ORDER NO. | AUTHORITY | VERIFICATION | TEST LOG |
| W/S 133 A | 78105 | EWA 08-956 | REF E.R. SER. NO. | REF E.R. SER. NO. |
| TIME | CONDITION | WORK ITEM | OPERATION COMPLETION STOP INSP. | OPERATION COMPLETION STOP INSP. |
| 1500 | | 3,2,8,0 T (Completed) OK | | DM |
| 1530 | | 3,2,3,0 T (Completed) OK | | DM |
| 1545 | | 3,2,4,0 T (Completed) OK | | DM |
| 1600 | | 3,2,5,0 T (Completed) OK | | DM |
| 1630 | | 3,2,6,0 T (Completed) OK | | DM |
| 1645 | | 3,2,7,0 T (Completed) OK | | DM |
| 1700 | Vol. Sec. | 3,2,8,0 T (Completed) OK | | DM |
| | 2 2 | | | |
| | T2 | Page 2548 | | |
| | | Page 23 | | |

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JOB NUMBER
PAGE
61347
OF
J3 4400 5605 ORIG. 6/

PART NUMBER
25-22036-
25-29278-

5

THE BOEING COMPANY

NUMBER T2-2548 MODEL NO. VS-133ATITLE Engineering Development Integration Test No. Two
(EDIT III-1) - Photographs

| | | |
|----------------------|------------------------|----------------|
| PREPARED BY | <u>N. L. Noe</u> | <u>5/14/62</u> |
| | <u>D. H. Viehouser</u> | <u>5/14/62</u> |
| SUPERVISED BY | <u>E. W. V.</u> | <u>5/14/62</u> |
| APPROVED BY | <u>E. G. Helming</u> | <u>5/14/62</u> |
| RELIABILITY APPROVAL | <u>J. W. Hampton</u> | <u>5/14/62</u> |

(DATE)

AF 04(647)-289
CONTRACT NO.5-78105-8640-68956
CHARGE NUMBER

70

VOL. 2
SEC. 3
No. T2-2548
PAGE 1 OF 4

1.0.0

PHOTOGRAPHS

1.0.1

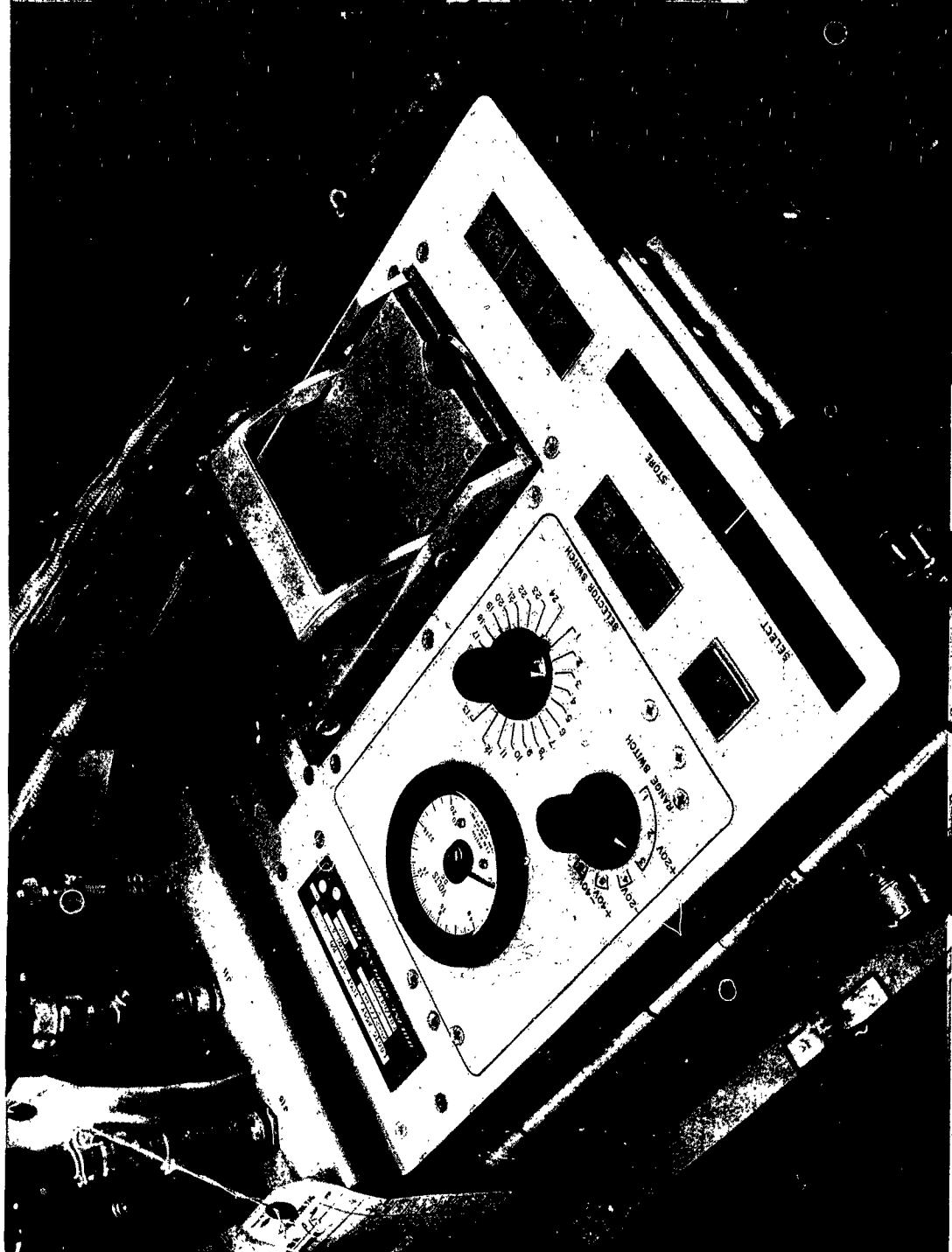
The photographs which follow show the P/G and P/G Test Set.

Photograph two shows the Test Set connected to the P/G. The Test Set is in two parts, the power supply for the Test Set being a separate unit. The power supply, shown in photograph two, to the left of the P/G and P/G Test Set, is also used in the P/G Test Set - self-test.

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U3 4288 2000

BOEING | VOL 2 | NO. T2-2548 →
SEC. 3 | PAGE 2



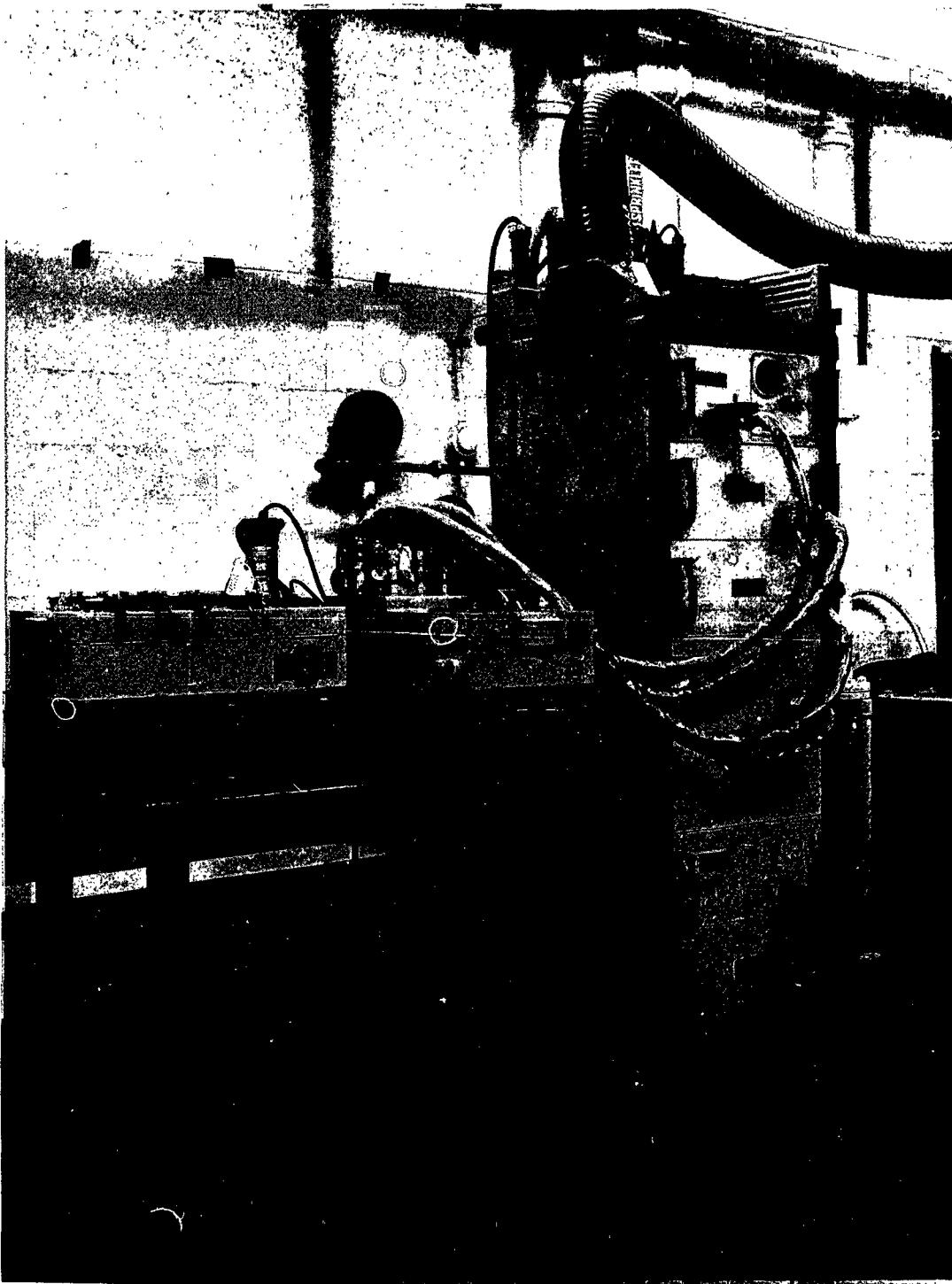
PROGRAMMER GROUP TEST SET (PORTABLE) FIG. A 3092

AN ENGINEER DESIGN DATA INTEGRATION
EDIT TEST EQUIPMENT - 4-3-62
12m

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U3 4288 2000-

BOEING | VOL. 2 | NO T2-2548 →
| SEC. 3 | PAGE 3



PROGRAMMER GROUP TEST SET & PROGRAMMER GROUP

MINUTEMAN
ZER DESIGN EDIT INTEGRATION 2A106468
TEST - ED - ST EQUIPMENT - 4-3-02

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U3 4288 2000

BOEING VOL. 2 NO T2-2548
SEC. 3 PAGE 4 →

THE BOEING COMPANY

SECTION-TITLE PAGE U3 4288 0000 REV. 2/61

2-5142

NUMBER T2-2548 MODEL NO. WS133A
TITLE Engineering Development Integration
Test No. Two-B (EDIT II-1B) Report

PREPARED BY D. W. Gladish 3/14/63
SUPERVISED BY E. G. Helling 3/12/63
APPROVED BY R. B. Edgar 3/13/63
RELIABILITY APPROVAL _____
(DATE)

ATF 04(647)-289
CONTRACT NO.

5-78105-8640-68956
CHARGE NUMBER

2/22/63

VOL. 2 NO. T2-2548
SEC. 4 PAGE 1 OF 43

1.0 PURPOSE

This section presents the test report of the Engineering Development Integration Test number two on Block Change -1 equipment of Operational Configuration -- EDIT II-1B. The test was conducted in accordance with the Test Procedures Document D2-13308, Volume 2, and the EDIT Program Plan D2-13307.

1.1 EQUIPMENT IN TEST

Programmer Group, Fig. A 1201, Ser. No. 0000034

Programmer Group Test Set, Fig. A 3092, Ser. No. 0003

Dummy Decoder Relay Assembly, Fig. A 3113, Ser. No. 0002

Power Supply, Fig. A 4523, Ser. No. 0000001

2.0 SUMMARY

2.1 The Self-Test of the Programmer Group (P/G) Test Set was completed in accordance with paragraph 3.1.0. The tolerances were increased for the voltage check of paragraph 3.1.3.2 (3) at Selector Switch 15 and 18 to allow for diode voltage drops.

Compatibility tests between the P/G and the P/G Test Set had continuous erratic NO-GO's on different cards. Majority of the times the first check would be a NO-GO and additional test gave GO's by opening and closing the Card Reader. All equipment was checked for configuration and functional tests. The Programmer Group had to be functional tested in the -89 configuration, and the P/G Test Set had calibration certification. Erratic NO-GO's

continued after these tests were completed. These conditions were more prevalent on the End-to-End tests than on individual drawer tests. Additional checks were made on the P/G Test Set and it was found that the trouble was in the Card Reader Assembly. A new assembly that passed functional test was installed in the P/G Test Set. The End-to-End test was performed and all was GO. The complete EDIT II-1 test was performed with all tests GO. The following day we ran through the End-to-End test (60. cards) eight times to obtain performance data on the new Card Reader Assembly. There were three NO-GO's during this test.

No formal demonstration was held for this test by direction of BSD/STL representative. The EDIT II-1 test in March 1962 demonstrated to the customer and BSD/STL that the equipment is compatible.

3.0 REPORT

3.0.1 The EDIT II-1B test was performed according to the Test Procedure Document D2-13308, Volume 2. These procedures and the recorded results are given in paragraph 3.1.0.0 through 3.3.8.3 which follow.

| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|---|-----------------|-------------|----------|
| 3.1.0.0 <u>P/G TEST SET SELF-TEST PROCEDURES</u> | | | |
| 3.1.1.0 Test Set-Up | | | |
| 3.1.1.1 The P/G Test Set must be isolated from all electronic equipment with the exception of the Test Set Power case. | | OK | |
| 3.1.1.2 Connect the Fig. A 4523 Distribution Box, and P/G Test Set, as shown in Figure 3.1.1.2-4. | | | |

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U3 4288 2000 (WAS MAC 41310)

DOEING | VOL 2 | NO T2-2548
SEC. 4 | PAGE 4



Fault Locator

Part of Fig. A 3092

| | | | |
|-----|-----|-----|-----|
| J1 | P1 | W1 | P32 |
| J2 | P2 | W2 | P31 |
| J3 | P3 | W3 | P27 |
| J4 | P4 | W4 | P29 |
| J6 | P6 | W6 | P34 |
| J7 | P7 | W7 | P33 |
| J8 | P8 | W8 | P28 |
| J9 | P9 | W9 | P30 |
| J10 | P10 | W10 | P23 |
| J11 | P11 | W11 | P37 |
| J12 | P12 | W12 | P36 |
| J13 | P13 | W13 | P21 |
| J14 | P14 | W14 | P35 |
| J15 | P15 | W15 | P24 |
| J18 | P18 | W18 | P22 |
| J19 | P19 | W19 | P25 |

Distribution Box

Part of Fig. A 3092

| |
|------|
| A2J1 |
| A1J1 |
| J7 |
| J9 |
| A4J1 |
| A3J1 |
| J8 |
| J10 |
| J3 |
| A7J1 |
| A6J1 |
| J1 |
| P2 |
| J4 |
| J5 |

Power Supply

Fig. A 4623

J5

| | | | |
|---------|-----|-----|----|
| J5 | W5 | P26 | J4 |
| 120V AC | W16 | P20 | J5 |

Self-Test of P/G Test Set Connection

Figure 3.1.1.2-4

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US 4269 2000

BOEING | VOL 2 | NO T2-2548
SEC. 4 | PAGE 5



| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|--|--|----------------|---|
| 3.1.1.3 Connect power cable to 120 volt, 60 cps outlet. | | | |
| 3.1.1.4 Press the TEST SET POWER ON switch on the Test Set. <u>NOTE:</u> The Test Set must be ON for 30 seconds before running any card tests. | TEST SET POWER ON lamp turns ON. The AFS ALARM and V/H ALARM lamps turn ON. The WARNING lamp starts flashing at 4 cps. | OK OK OK | These conditions exist until the 13th card. |
| 3.1.1.5 Press the P/G POWER ON switch. | P/G POWER ON lamp ON. | OK | |

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U3 4288 2000 (WAS BAC 4131D)

BOEING | VOL 2 | NO T2-2548
SEC. 4 | PAGE 6

| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|------------------------------|---|-------------|----------|
| 3.1.2.0 <u>CARD TESTS</u> | | | |
| 3.1.2.1 | Remove program cards from the card container as required by the procedures and insert in UNTESTED CARDS slot of Test Set. | | |
| 3.1.2.2 | Insert selected punched cards, as called out by this procedure; in the Test Set CARD READER face up and beveled corner out. Pull CARD READER HANDLE fully back to engage electrical contacts. | | |

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US 4286 2000 (WAS BAC 4111D)

| | | |
|---------|--------|------------|
| STOENES | VOL 2 | NO T2-2548 |
| SEC 4 | PAGE 7 | ↓ |

| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|--|---|-------------|----------|
| 3.1.2.3 Push START TEST button on the Test Set. <u>NOTE:</u> The START TEST switch must be held down until the START TEST lamp turns ON. | START TEST lamp ON. | OK | |
| 3.1.2.4 GO or NO-GO lamp will illuminate and the TEST IN PROCESS lamp OFF. TEST IN PROCESS lamp will go OFF. <u>NOTE:</u> Additional instructions, when needed, are given for each card test. | TEST IN PROCESS lamp OFF. GO or NO-GO lamp ON. | OK | |
| 3.1.2.5 Record each test result in appropriate column allocated for each card or voltage test in this document. | | | |

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U3 4288 2000 (WAS BAC 4131D)

| | | |
|---------|--------|------------|
| AMMETER | VOL 2 | NO T2-2548 |
| | SEC. 4 | PAGE 8 |

| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|-----------|--|-------------|--|
| 3.1.2.6 | | | |
| | Push card reader handle, remove card and place it in the TESTED CARD slot. | | |
| 3.1.2.7 | | | Repeat paragraphs 3.1.2.1 thru 3.1.2.6 for each succeeding test. |

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U3 4288 2000 (WAS BAC 4131D)

| | | |
|-----------|--------|------------|
| SEARCHING | VOL 2 | NO T2-2548 |
| | SEC. 4 | PAGE # 9 |

| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|--|--|---|----------|
| <p>3.1.3.2</p> <p>Follow paragraphs 3.1.2.1 thru 3.1.2.7 starting with card 25-30947-125.</p> <p>(1) Card 25-30947-125. After the GO lamp is ON, set the Range Switch at 3, and rotate the Selector Switch successively through the positions indicated in Table 3.1.3.2.4. Read the voltmeter at each position of the Selector Switch.</p> <p>(2) Card 25-30947-126. Follow same procedure as number 1 above.</p> | <p>GO lamp ON.</p> <p>The voltmeter shall read 10 ± 0.5 volts at each setting of the Selector Switch.</p> <p>NO-GO lamp ON.</p> <p>The voltmeter shall read 10 ± 0.5 volts at each setting of the Selector Switch except at position 14 which read 0 ± 0.5 volts.</p> | <p>OK</p> <p>See Table 3.1.3.2.4</p> <p>OK</p> <p>See Table 3.1.3.2.4</p> | |

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U3 4288 2000 (WAS SAC 4131D)

| | | |
|-----------|---------|------------|
| SWITCHING | VOL 2 | NO T2-2548 |
| SFC 4 | PAGE 10 | ✓ |

Table 3.1.3.2-4
Voltmeter Switching Requirements Self-Test Procedure

| Selector Switch Position | Card-125 Accept. Volts Read | Card-125 Accept. Volts | Card-126 Volts Read | Card-126 Accept. Volts | Card-127 Volts Read | Card-127 Accept. Volts | Card-128 Volts Read | Card-128 Accept. Volts |
|--------------------------|-----------------------------|------------------------|---------------------|------------------------|---------------------|------------------------|---------------------|------------------------|
| 1 | 10 ± 0.5V | 10.0V | 10 ± 0.5V | 10.0V | 10 ± 0.5V | 10.0V | 10 ± 0.5V | 10.0V |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | 10 ± 0.5 V | 10.0V | 10 ± 0.5 V | 10.0V | 10 ± 0.5 V | 10.0V | 10 ± 0.5 V | 10.0V |
| 13 | | | | | | | | |
| 14 | 10 ± 0.5 V | 10.0V | 10 ± 0.5 V | 10.0V | 10 ± 0.5 V | 10.0V | 10 ± 0.5 V | 10.0V |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | 10 ± 0.5 V | 10.0V | 10 ± 0.5 V | 10.0V | 10 ± 0.5 V | 10.0V | 10 ± 0.5 V | 10.0V |
| 18 | 10 ± 0.5 V | 10.0V | 10 ± 0.5 V | 10.0V | 10 ± 0.5 V | 10.0V | 10 ± 0.5 V | 10.0V |

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3/22/03

2000

BOEING | VOL 2 | NO. T2-2548 | →
SERIAL PAGE 11

| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|---|---|---------------------------------------|----------|
| 3.1.3.2 (Continued) | | | |
| (3) Card 25-30947-127. Follow same procedure as number (1) above. | GO lamp ON. The voltmeter shall read 10 ± 0.5 volts on selector switch positions 1 thru 13. | OK See Table 3.1.3.2-4 | |
| (4) Card 25-30947-128. Follow same procedure as number (1) above. | Position 15 & 18 shall read 10 ± 0.5 v read 10 ± 1.1 v NO-GO lamp ON. The voltmeter shall read 10 ± 0.5 volts at each setting of the Selector Switch. | OK OK OK See Table 3.1.3.2-4 | |
| (5) Card 25-30947-129. | GO lamp ON | OK | |
| NOTE: This test requires 66 seconds for completion. | | | |
| (6) Card 25-30947-130 | GO lamp ON. | OK | |

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SCREEN VOL NO T2-2548
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| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|------------------------|-----------------|-------------|---|
| 3.1.3.2 (Continued) | | | |
| (7) Card 25-30947-131 | NO-GO lamp ON. | OK | |
| (8) Card 25-30947-132 | GO lamp ON. | OK | |
| (9) Card 25-30947-133 | GO lamp ON. | OK | |
| (10) Card 25-30947-134 | NO-GO lamp ON. | OK | |
| (11) Card 25-30947-135 | GO lamp ON. | OK | The stepping switch will scan 4 times during test with an audible pause between scans. |
| | | | Repeat test but this time push the P/G POWER OFF switch during first scan of stepping switch. |
| | | | NO-GO lamp ON. |

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SWEENEY | VOL 2 | NO T2-2548
SEC. 4 | PAGE 13

| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|---|-------------------------------|-------------|---|
| 3.1.3.2 (Continued) | | | |
| (12) Card 25-30947-136 | GO Lamp ON. | OK | |
| (13) Card 25-30947-137. | GO Lamp ON. NO-GO Lamp ON. | OK OK | The W/H ALARM, AFS ALARM and WARNING lamps will turn OFF when the P/G POWER OFF switch is depressed. The lamps will turn back ON when switch is released. |
| Repeat test, but this time push the P/G POWER OFF switch during test. | | | |
| (14) Card 25-30947-138. | GO Lamp ON. | OK | The AFS ALARM lamp turns OFF during test. |

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| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|---------------------|---|--|----------|
| 3.1.3.2 (Continued) | (15) Card 25-30947-139. Initiate test and observe the START TEST, AFS SAFETY, W/H ALARM, and WARNING lamps. | <p>The following events take place:</p> <p>A. Shortly after pressing the START TEST switch:</p> <ul style="list-style-type: none"> (1) The AFS ALARM lamp turns OFF momentarily. (2) The START TEST Lamp turns ON. <p>B. After the START TEST Lamp turns ON:</p> <ul style="list-style-type: none"> (1) The W/H ALARM turns OFF. (2) The WARNING lamp starts flashing at 25% duty cycle. | |

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SERIAL NO. T2-2548
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| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|------------------------|---|---------------------|----------|
| 3.1.3.2 (Continued) | | | |
| (15) (Continued) | <p>C. When the W/H ALARM turns OFF, the AFS ALARM lamp starts flashing at 8 cps.</p> <p>D. When the stepping switch starts to scan, the W/H ALARM lamp turns ON; the AFS ALARM lamp goes back to steady ON state, and the WARNING lamp resumes flashing at 4 cps.</p> | <p>OK</p> <p>OK</p> | |
| (16) Card 25-30947-140 | | | |
| (17) Card 25-30947-141 | | | |

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U3 4200 2000 (WAS DDC 4131D)

~~ROUTINE~~ VOL 2 NO T2-2548
SEC 4 PAGE 16 →

| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|------------------------|-----------------|-------------|--|
| (18) Card 25-30947-142 | GO lamp ON. | OK | |
| (19) Card 25-30947-143 | GO lamp ON. | OK | |
| (20) Card 25-30947-144 | GO lamp ON. | OK | The W/H ALARM, AFS ALARM and WARNING lamps will turn OFF when the card reader handle is operated UP. The START TEST lamp turns ON. When the stepping switch starts its scan, the lamps will turn back ON. AFS alarm OFF. |
| (21) Card 25-30947-145 | GO lamp ON. | OK | ↑ |
| (22) Card 25-30947-146 | | OK | ↓ |
| (23) Card 25-30947-147 | GO lamp ON. | OK | ↓ |

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SEC 1 PAGE 17

| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|-----------|---|-------------|----------|
| 3.2.0.0 | <u>COMPATIBILITY TEST OF P/G WITH THE P/G TEST SET.</u> | | |
| 3.2.1.0 | Test Set-Up. | | |
| 3.2.1.1 | The P/G must be isolated from all electronic equipment with the exception of its SOURCE POWER SUPPLY and associated P/G Test Set equipment. | | |
| 3.2.1.2 | Apply cooling air to P/G (Ref. 2.1.2). | | |
| 3.2.1.3 | Make the cable connections shown in Figure 3.2.1.3-4. | | |

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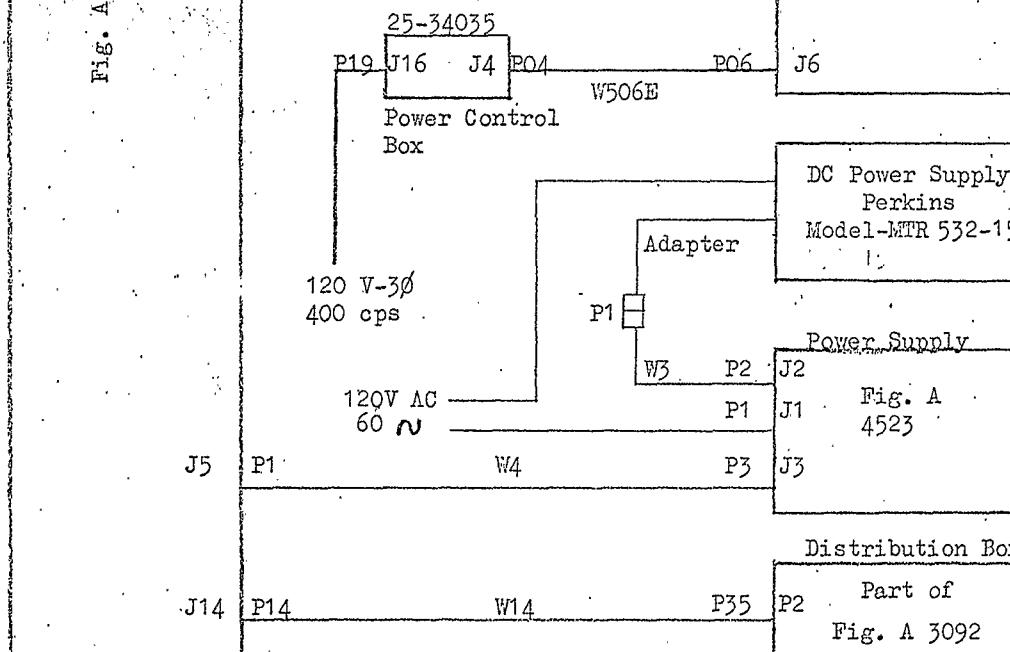
US 4268 2000 (WAS BAC 4191D)

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P/G Test Set

| | | | |
|-----|-----|-----|-----|
| J1 | P1 | W1 | P32 |
| J2 | P2 | W2 | P31 |
| J3 | P3 | W3 | P27 |
| J4 | P4 | W4 | P29 |
| J6 | P6 | W6 | P34 |
| J7 | P7 | W7 | P33 |
| J8 | P8 | W8 | P28 |
| J9 | P9 | W9 | P30 |
| J10 | P10 | W10 | P23 |
| J11 | P11 | W11 | P37 |
| J12 | P12 | W12 | P36 |
| J13 | P13 | W13 | P21 |
| J15 | P15 | W15 | P24 |
| J18 | P18 | W18 | P22 |
| J19 | P19 | W19 | P25 |

Fig. A 3092



Programmer Group

| |
|------|
| A2J1 |
| A1J1 |
| J7 |
| J9 |
| A4J1 |
| A3J1 |
| J8 |
| J10 |
| J3 |
| A7J1 |
| A6J1 |
| J1 |
| J4 |
| J2 |
| J5 |
| J6 |

Fig. A 1201

DC Power Supply
Perkins
Model-MTR 532-15

Power Supply
Fig. A 4523

Distribution Box
Part of
Fig. A 3092

| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|---|----------------------------|-------------|----------|
| 3.2.1.4 The Dummy Decoder is inserted into Launch Drawer No. 1 of the P/G. | | | |
| 3.2.1.5 Press the TEST SET POWER ON switch. <u>NOTE:</u> The MONITOR POWER ON lamp on the P/G will have been ON con- tinuously during preceding tests. It will remain On until the main IF circuit breaker is tripped OFF to replace a faulty P/G drawer. | TEST SET POWER ON lamp ON. | OK | |

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| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|---------------------------------------|---|------------------------|----------|
| 3.2.2.0 <u>VOLTAGE LEVEL CHECK</u> | | | |
| 3.2.2.1 P/G Monitor Power ON Only | | | |
| 3.2.2.2 | Measure the voltages at the Range and Selector positions on the Test Set as specified in Table 3.2.2.2-4. Record the results of each test on specified Table. | See Table 3.2.2.2-4. | |
| 3.2.2.3 | Press the P/G POWER ON switch. | P/G POWER ON lamps ON. | OK |
| 3.2.2.4 | Measure the voltages at the Range and Selector positions on the Test Set as specified in Table 3.2.2.4-4. Record the results of each test on specified table. | See Table 3.2.2.4-4. | |

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| | | |
|--------|---------|-------------|
| BOEING | VOL 2 | NO. T2-2548 |
| SEC. 4 | PAGE 21 | Y |

| RANGE | | | | | | | | | | | | |
|--------------|---------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|
| | + 20 Volts DC | | | - 20 V DC | | | + 40 VDC | | | - 40 VDC | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 1 | 2 | 3 | 4 | 5 | 6 |
| Accept Volts | Volts Read | Accept Volts | Volts Read | Accept Volts | Volts Read | Accept Volts | Volts Read | Accept Volts | Volts Read | Accept Volts | Volts Read | Accept Volts |
| 1 | 0 to 2 | 0 to 2 | 0 | 0 to 2 | 0 | 0 to 2 | 0 | 0 to 5 | 0 | 0 to 5 | 0 | 0 to 5 |
| 2 | 0 to 0.5 | 0.25 | ↑ | △ | ↑ | 0 to 0.5 | 0 | 10 ± 0.5 | 10.1 | 28 ± 1 | 28 | 0 to 0.5 |
| 3 | 10 ± 0.5 | 10.0 | | | | 0 to 0.5 | 0 | 0 to 0.5 | 10.0 | 0 to 0.5 | 0 | 0 to 0.5 |
| 4 | 0 to 0.5 | 0.25 | | | | 0 to 0.5 | 0 | 10 ± 0.5 | 10.0 | 28 ± 1 | 28 | 0 to 0.5 |
| 5 | 10 ± 0.5 | 10.0 | | | | 0 to 0.5 | 0 | 0 to 0.5 | 10.0 | 0 to 0.5 | 0 | 0 to 0.5 |
| 6 | 0 to 0.5 | 0 | | | | 0 to 0.5 | 0 | 10 ± 0.5 | 10.3 | 28 ± 1 | 28.5 | 0 to 0.5 |
| 7 | 10 ± 0.5 | 10.1 | | | | 10 ± 0.5 | 10.3 | 10 ± 0.5 | 10.3 | 28 ± 1 | 28.5 | 0 to 0.5 |
| 8 | 0 to 0.5 | 0 | | | | 0 to 0.5 | 0 | 10 ± 0.5 | 10.0 | 28 ± 1 | 27.5 | 0 to 0.5 |
| 9 | 10 ± 0.5 | 10.0 | | | | 0 to 0.5 | 0 | 10 ± 0.5 | 10.0 | 28 ± 1 | 27.5 | 0 to 0.5 |
| 10 | 10 ± 0.5 | 10.0 | | | | 0 to 0.5 | 0 | 10 ± 0.5 | 10.2 | 28 ± 1 | 28.1 | 0 to 0.5 |
| SELECTOR | 11 | 0 to 0.5 | 0 | | | 0 to 0.5 | 0 | 17.5 ± 2.5 | 17.5 | 28 ± 1 | 28.0 | 0 to 0.5 |
| | 12 | 11.5 ± 0.5 | 11.7 | 0 to 2 | 0 | | | 17.5 ± 2.5 | 17.7 | 36 ± 3 | 35.0 | |
| | 13 | 17 ± 2 | 17.5 | | | | | | | 36 ± 3 | 35.0 | |
| | 14 | 17 ± 2 | 17.5 | | | | | | | 36 ± 3 | 35.1 | |
| | 15 | 17 ± 2 | 17.5 | | | | | | | | | |
| | 16 | 17 ± 2 | 17.5 | | | | | | | | | |
| | 17 | | | | | | | | | | | |
| | 18 | | | | | | | | | | | |

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Table 3.2.2.2-4 P/G Monitor Power ON Voltage Check

| RANGE | | | | | | | | | | |
|-----------------|----------------|----------------|----------------|----------------|------------|----------------|----------------|--------------|------------|--------------|
| | + 20 Volts DC | | | -20 Volts DC | | | + 40 Volts | | | - 40 Volts |
| | 1 | 2 | 3 | 4 | 5 | 6 | 5 | 6 | 6 | 6 |
| Accept Volts | Volts Read | Accept Volts | Volts Read | Accept Volts | Volts Read | Accept Volts | Volts Read | Accept Volts | Volts Read | Accept Volts |
| 1. 10 ± 0.5 | 10.0 | 10.5 ± 0.5 | 10.4 | 10.5 ± 0.5 | 10.5 | 10.5 ± 0.5 | 10.6 | 28 ± 1 | 28.0 | 30 ± 1 |
| 2 | | | | | | | | | | |
| 3 | | | | | | | | | | |
| 4 | | | | | | | | | | |
| 5 | | | | | | | | | | |
| 6 | | | | | | | | | | |
| 7 | | | | | | | | | | |
| 8 | | | | | | | | | | |
| 9 | | | | | | | | | | |
| 10 | | | | | | | | | | |
| 11 | 10 ± 0.5 | 10.0 | | | | | 10 ± 0.5 | 10.6 | | |
| 12 | 11.5 ± 0.5 | 11.5 | 10.5 ± 0.5 | 10.4 | | | 17.5 ± 2.5 | 18.0 | 28 ± 1 | 28.0 |
| 13 | 17 ± 2 | 17.0 | | | | | 17.5 ± 2.5 | 18.0 | 36 ± 3 | 36.0 |
| 14 | 17 ± 2 | 17.0 | | | | | | | 36 ± 3 | 36.0 |
| 15 | 17 ± 2 | 17.0 | | | | | | | | |
| 16 | 17 ± 2 | 17.0 | | | | | | | | |
| 17 | | | | | | | | | | |
| 18 | | | | | | | | | | |

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BOEING VOL 2 NO T2-2548
SEC. 4 PAGE 23

Table 3.2.2.4-4 P/G Monitor and Test Power ON Voltage Check

| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|---|-----------------|-------------|--|
| 3.2.3.0 <u>PHASE SUPPLY VOLTAGE TEST</u> | | | |
| 3.2.3.1 Select punched cards (25-31059-106 thru 25-31059-110) to check the phase supply voltage in each of the five drawers. | | | OK |
| 3.2.3.2 Follow paragraphs 3.1.2.1 thru 3.1.2.7 of this volume starting with card 25-31059-106. | | | |
| | | | <u>NOTE:</u> For more detail on function of these cards, see D2-12636, Volume I. |
| | | | (1) 25-31059-106 |
| | | | <u>NOTE:</u> This test shall be performed prior to any other test. |
| | | | GO lamp ON |

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| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|------------------|------------------------|-------------|--|
| (2) 25-31059-107 | GO Lamp ON ↑ | OK | |
| (3) 25-31059-108 | | OK | |
| (4) 25-31059-109 | | OK | |
| (5) 25-31059-110 | ↓ GO Lamp ON | OK | |
| 3.2.4.0 | | | |
| | <u>END TO END TEST</u> | | |
| 3.2.4.1 | | | Select punched cards (25-26642-165 thru 25-26642-232) for End-to-End Test. |

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BOEING | VOL 2 | NO T2-2548

| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|---------------------|-----------------|-------------|----------|
| 3.2.4.2 (Continued) | | | |
| (11) 25-26642-176 | GO lamp ON. | | |
| (12) -177 | | OK | ↑ |
| (13) -178 | | | |
| (14) -180 | | | |
| (15) -181 | | | |
| (16) -182 | | | |
| (17) -183 | | | |
| (18) -184 | | | |
| (19) -185 | | | |
| (20) -187 | | | |
| (21) -188 | | | |
| (22) -189 | | | |
| (23) -190 | | | |
| (24) -191 | | | |
| (25) -193 | | | |
| (26) 25-26642-194 | GO lamp ON. | | ↓ |

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| | | |
|--------|---------|------------|
| BOEING | VOL 2 | NO T2-2548 |
| SEC. 4 | PAGE 27 | ↓ |

| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|---------------------|-----------------|-------------|----------|
| 3.2.4.2 (Continued) | | | |
| (27) 25-26642-195 | | GO lamp ON. | |
| (28) -196 | | | OK ↑ |
| (29) -197 | | | |
| (30) -198 | | | |
| (31) -199 | | | |
| (32) -200 | | | |
| (33) -201 | | | |
| (34) -204 | | | |
| (35) -205 | | | |
| (36) -206 | | | |
| (37) -207 | | | |
| (38) -208 | | | |
| (39) -209 | | | |
| (40) -210 | | | |
| (41) -211 | | | |
| (42) -214 | | | |
| (43) 25-26642-215 | | GO lamp ON. | OK ↓ |

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| | | |
|--------|--------|------------|
| BOEING | VOL 2 | NO T2-2548 |
| | SEC. 4 | PAGE 28 |

| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|-----------|--|----------------|----------|
| 3.2.4.3 | Card 25-26642-216 | | |
| 3.2.4.4 | Select punched card 25-26642-216 | | |
| 3.2.4.5 | Follow paragraph 3.4.2.2 | | |
| 3.2.4.6 | Wait 40 ± 2 minutes and then push START TEST button. | NO-GO lamp ON. | OK |
| 3.2.4.7 | | GO lamp ON. | OK |

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| | | | | |
|---------|-----|---|------|---------|
| OPENING | VOL | 2 | NO | T2-2540 |
| SEC. | 4 | | PAGE | 29 |

| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|-----------|--|-------------|----------|
| 3.2.4.8 | Card 25-26642-217 | | |
| 3.2.4.9 | Select punched card 25-26642-217. | | |
| 3.2.4.10 | Follow paragraph 3.1.2.2. | | |
| 3.2.4.11 | Depress the SHUT DOWN LAUNCH FACILITY button on the P/G. <u>CONTINUE TO HOLD BUTTON DOWN THROUGHOUT THIS CARD TEST.</u> Release only after GO or NO-GO is received. | | |
| 3.2.4.12 | Press Test Start Switch Follow paragraphs 3.1.2.3 thru 3.1.2.6. | GO lamp ON. | OK |

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| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|-----------|--|-------------|----------|
| 3.2.4.13 | Card 25-26642-218. | | |
| 3.2.4.14 | Select punched card 25-26642-218. | | |
| 3.2.4.15 | Follow paragraph 3.1.2.2. | | |
| 3.2.4.16 | Depress the P/G POWER OFF switch of the Test Set to initiate shut down. <u>KEEP DEPRESSED FOR DURATION OF TEST.</u> | | |

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| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|-----------|--|--|-------------------------------------|
| 3.2.4.17 | Follow paragraphs 3.1.2.3. thru 3.1.2.6. NOTE: To start up after the foregoing test, depress P/G POWER ON switch. | GO lamp ON. OK | |
| 3.2.4.18 | Select punched cards (25-26642-219 thru 25-26642-232). | | |
| 3.2.4.19 | Follow paragraphs 3.1.2.1 thru 3.1.2.7 of this volume starting with card 25-26642-219. | (1) 25-26642-219 (2) -220 (3) -221 (4) -222 (5) 25-26642-223 | GO lamp ON. OK OK OK OK |

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| | | |
|--------|---------|-------------|
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| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|-------------------|-----------------|---|----------|
| (6) 25-26642-224 | | | |
| (7) -225 | GO Lamp ON. | OK ↑ | |
| (8) -226 | | | |
| (9) -227 | | | |
| (10) -228 | | | |
| (11) -229 | | | |
| (12) -230 | | | |
| (13) -231 | | | |
| (14) 25-26642-232 | GO Lamp ON. | OK ↓ | |
| 3.2.5.0 | | | |
| | | TIMER SEQUENTIAL DRAWER TEST | |
| 3.2.5.1 | | | |
| | | Select punched cards (25-26643-120 thru 25-26643-138). | |

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| | | |
|--------|--------|------------|
| BOEING | VOL 2 | NO T2-2548 |
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R

| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|-----------|--|---------------------------------------|----------|
| 3.2.5.2 | <p>Follow paragraphs 3.1.2.1 thru 3.1.2.7 of this volume starting with card 25-26643-120.</p> <p><u>NOTE:</u> For more detail on function of these cards, see D2-12636, Vol. III.</p> <p>(1) 25-26643-120 GO lamp ON. ↑</p> <p>(2) -121 ↓</p> <p>(3) -123 ↓</p> <p>(4) -124 ↓</p> <p>(5) -139 ↓</p> <p>(6) -126 ↓</p> <p>(7) -127 ↓</p> <p>(8) -128 ↓</p> <p>(9) -129 ↓</p> <p>(10) -130 ↓</p> <p>(11) 25-26643-131 GO lamp ON. ↓</p> | <p>OK</p> <p>↑</p> <p>↓</p> <p>OK</p> | |

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| | | |
|--------|---------|------------|
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| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|---------------------|---|-------------|---|
| 3.2.5.2 (Continued) | | | |
| (12) 25-26643-132 | GO lamp ON. | OK | |
| (13) -133 | | ↑ | |
| (14) -134 | | | |
| (15) -135 | | ↓ | |
| (16) -136 | | | |
| (17) -137 | | | |
| (18) 25-26643-138 | GO lamp ON. | OK | |
| 3.2.6.0 | | | |
| | <u>PROGRAMMER LAUNCH SEQUENCE DRAWER TEST</u> | | |
| 3.2.6.1 | Select punched cards (25-26644-128 thru 25-26644-164.) | | |
| 3.2.6.2 | | | Follow paragraphs 3.1.2.1 thru 3.1.2.7 of this volume starting with 25-26644-128 |

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| | | | | |
|---------------|------|---|------|---------|
| <u>DEEJAY</u> | VOL | 2 | NO | T2-2548 |
| | SEC. | 4 | PAGE | 35 |

| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|--|---|---|----------|
| 3.2.6.2 (Continued) NOTE: For more detail on function of these cards, see D2-12636, Vol. IV. | (1) 25-26644-128 (2) -129 (3) -130 (4) -131 (5) -132 (6) -133 (7) -134 (8) -135 (9) -136 (10) -137 (11) -139 (12) -140 (13) -142 (14) 25-26644-143 | GO lamp ON. ↑ OK ↓ GO lamp ON. ↑ OK ↓ GO lamp ON. ↑ OK ↓ | |

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| | | |
|--------|---------|------------|
| BOEING | VOL 2 | NO T2-2548 |
| SEC. 4 | PAGE 36 | ↓ |

| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|---------------------|--|--|----------|
| 3.2.6.2 (Continued) | (15) 25-26644-145 (16) -156 (17) -157 (18) -158 (19) -159 (20) -160 (21) -161 (22) -162 (23) -163 (24) 25-26644-164 | GO lamp ON. OK ↑ OK ↓ GO lamp ON. | |

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3.2.7.0 PROGRAMMER CALIBRATOR TEST DRAWER TEST

3.2.7.1

Select punched cards (25-26645-128 thru
25-26645-157).



| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|-----------|--|---|--------------------|
| 3.2.7.2 | <p>Follow paragraphs 3.1.2.1 thru 3.1.2.7 of this volume, starting with card 25-26645-128.</p> <p><u>NOTE:</u> For more detail on function of these cards, see D2-12636, Vol. V.</p> <p>(1) 25-26645-128 (2) -129 (3) -130 (4) -131 (5) -132 (6) -133 (7) -134 (8) -135 (9) -136 (10) -137 (11) 25-26645-138</p> | <p>GO lamp ON</p> <p>↓</p> <p>↑</p> <p>↓</p> <p>↓</p> | <p>↓</p> <p>OK</p> |

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 U3 4288 2000 (WAS BAC 4131D)

BOEING | VOL 2 | NO T2-2548
 SEC. 4 | PAGE 38

| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|---------------------|-----------------|-------------|---------------|
| 3.2.7.2 (continued) | | | |
| (12) 25-26645-139 | GO lamp ON. | OK | ↑ |
| (13) -140 | | | |
| (14) -141 | | | |
| (15) -142 | | | |
| (16) -143 | | | |
| (17) -144 | | | |
| (18) -145 | | | |
| (19) -146 | | | |
| (20) -147 | | | |
| (21) -148 | | | |
| (22) -149 | | | |
| (23) -150 | | | |
| (24) -151 | | | |
| (25) -152 | | | ↓ GO lamp ON. |
| (26) 25-26645-153 | | | |

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US 4268 2000 (WAS DAC 4131D)

BOEING VOL 2 NO T2-2548
SEC. 4 PAGE 39

| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|---------------------|---|-------------|----------|
| 3.2.7.2 (Continued) | | | |
| (27) 25-26645-154 | GO lamp ON. | OK | |
| (28) -155 | | OK | |
| (29) -156 | | OK | |
| (30) 25-26645-157 | GO lamp ON. | | |
| 3.2.8.0 | MONITOR LAUNCHER MISSILE STATUS DRAWER TEST | | |
| 3.2.8.1 | Select punched cards (25-26646-137 thru 25-26646-172.) | | |
| 3.2.8.2 | Follow paragraphs 3.1.2.1 thru 3.1.2.7 of this volume, starting with card 25-26646-137. | | |

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U3 4288 2000 (WAS SAC 4131D)

BOEING VOL 2 NO T2-2548
SEC. 4 PAGE 40

| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|---------------------|--|-------------------|-------------------|
| 3.2.8.2 (Continued) | (1) 25-26646-137 (2) -139 (3) -140 (4) -141 (5) -142 (6) -143 (7) -144 (8) -145 (9) -146 (10) -149 (11) -150 (12) -153 (13) -154 (14) -155 (15) -156 (16) -157 (17) 25-26646-158 | GO lamp ON. OK | GO lamp ON. OK |

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BOEING | VOL 2 | NO T2-2548
SEC. 4 | PAGE 4



| PROCEDURE | ACCEPTABLE DATA | RECORD DATA | COMMENTS |
|---------------------|-----------------|-------------|----------------|
| 3.2.8.2 (Continued) | | | |
| (18) 25-26646-159 | GO lamp ON. | OK | |
| (19) -160 | | ↑ | |
| (20) -162 | | | |
| (21) -163 | | | |
| (22) -164 | | | |
| (23) -165 | | | |
| (24) -166 | | | |
| (25) -167 | | | |
| (26) -168 | | | |
| (27) -169 | | | |
| (28) -170 | | | |
| (29) -171 | | | |
| (30) 25-26646-172 | GO lamp ON. | OK | |
| 3.3.8.3 | | | Test complete. |

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U3 4268 2000 (WAS BAC 4131D)

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 SEC. 4 | PAGE 42




4.0

CONCLUSION

4.1

The EDIT II-1B test demonstrated that the operational configuration of the Programmer Group, P/G Test Set, Power Supply and Dummy Decoder Relay Assembly are physically, functionally, and electrically compatible. The problem discovered with the Card Reader Assembly in the P/G Test Set is being worked by the design group and packaging group. There are three areas of investigation: (1) Determine performance of the Test Sets delivered to operational sites. (2) Investigate materials and processes used on the Card Reader Assembly. (3) Evaluate the possibility of redesigning the Card Reader Assembly.

THE BOEING COMPANY

NUMBER T2-2548 MODEL NO. VS133A
TITLE Engineering Development Integration
Test No. Two B (EDIT II-1B) Test Log

2-5142

SECTION TITLE PAGE U3 4258 0000 REV. 2 / 61

PREPARED BY

SUPERVISED BY

APPROVED BY

RELIABILITY
APPROVAL

D. W. Gladish 3/14/63
D. W. Gladish 3/12/63
E. G. Hellings 3/13/63
R. B. Edgar 3/13/63

(DATE)

AF 04(647)-289
CONTRACT NO.

5-78105-8640-68956
CHARGE NUMBER

2/22/63

VOL. 2 NO. T2-2548
SEC. 5 PAGE 1 OF 34

1.0

MANUFACTURING & INSPECTION RECORD - TEST LOG

The following M&IR Test Log shows the test results recorded during EDIT III-1B. This EDIT Test was completed on January 17, 1963. Boeing Quality Control verification was not required for the Test Log.

U3 4288 2000 REV. 8/62

2-5142-2

REV SYM 2/22/3

REF ID: A671943 NO. T2-2548, Vol. "2
SECT. 5 PAGE 2

| TEST NUMBER | | UNIT SERIAL NUMBER | | TEST PLANNING | | MANUFACTURING AND INSPECTION RECORD | | PAGE OF | DATE |
|---|--------------------|--------------------|----------------|---------------|---------------|-------------------------------------|-------------------------|-----------------------|--|
| M5133A | | D2-13308 Vol. 2 | | SEE BELOW | | TEST LOG | | PAGE SER. NO. | 12/11/2 |
| TEST ITEM | TEST ITEM SER. NO. | WORK ITEM NO. | WORK ORDER NO. | TIME | CONDITION | ITEM NO. | ITEM NO. | AUTHORITY | PLANNING BUDGET VERIFICATION |
| | | | 78105 | | | | | EWA 8956 | REF E.R. SER. NO. OPERATION COMPLETION SHOP INSP. ENGR. |
| <p>This Test is performed to demonstrate compatibility of Operational Equipment.</p> <p>Programmer Group, Fig. A-1201; Programmer Group Test Set, Fig. A-3092; Dummy Decoder Relay Assembly, Fig. A-3113; Power Supply, Fig. A-4523.</p> <p>The procedures for this Test are in document D2-13308, Volume 2, Section 2.</p> <p>Equipment:</p> <p>P/G 25-22036-89 Unit 0000034 P/G Test Set 25-26725-1 Unit 0003 Dummy Decoder Relay Assy 25-26839-12 Unit 0002 Power Supply 25-29137-1 Unit 000001 DC Power Supply, Model-TP-15, BAC # 521647 DC Power Supply, Model-TP-15, USAF 36041, P.C. 6492 400n Pwr Control Box 25-34035</p> | | | | | | | | | |
| PAGE | JOB NUMBER | NONREGULATORY | | PART NUMBER | COMPATIBILITY | | LEAD INSP. STAMP DATE | INSP. REG. STAMP DATE | CUS |
| 1 | 61347 | | | See Above | | | U3 4400 5605 ORIG. 6/60 | | |

JOB NUMBER
61347
U3 4400 5605 ORIG. 6/60

| TEST NUMBER | | UNIT SERIAL NUMBER | TEST PLANNING BY DATE | MANUFACTURING AND INSPECTION RECORD | | PAGE SER. NO. | PAGE OF | DATE |
|-------------|-------------------------------|--------------------|--------------------------|-------------------------------------|-----------------|---------------|---------|------|
| ITEM NO. | TEST ITEM SER. NO. | WORK ORDER NO. | AUTHORITY | TEST LOG | PLANNING BUDGET | | | |
| 100W5-133A | EDIT II-1B D2-13308 Vol. 2 | 78105 | EWA 3950 | | | | | |
| 110 | | | | | | | | |
| 1245 | | | | | | | | |
| 1330 | | | | | | | | |

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SER. NO.

OPERATION COMPLETION
SHOP INSP. ENGR.

NOMENCLATURE
COMPATIBILITY TEST

PAGE 2 OF 3

LEAD INSP. STAMP INSP. REG. STAMP DATE CUS.

03 4400 5605 ORIG. 6/60

| TEST NUMBER D2-13308 Vol. 2 | UNIT SERIAL NUMBER — | TEST PLANNING | | MANUFACTURING AND INSPECTION RECORD | | PAGE OF 3 |
|--------------------------------|-------------------------|-----------------------|---------------------------------------|-------------------------------------|-----------------------|------------------------------------|
| | | BY DATE | BY DATE | PAGE SER. NO. | PAGE SER. NO. | |
| | Model No. 1/5133A | TEST ITEM SER. NO. | WORK ORDER NO. ITEM NO. | 78105 | AUTHORITY EVA 8956 | PLANNING BUDGET VERIFICATION |
| 1300 | | TP 3.2.6 | Cards 25-26645-128 thru -157 | | REF E.R. SER. NO. | OPERATION COMPLETION SHOP INSP. |
| | | | Cards 25-26645-138 thru -164 | | | |
| | | | All - GO | | | |
| 1400 | | TP 3.2.7 | Cards 25-26645-128 thru -157 | | | |
| | | | Cards 25-26645-134 Gave NO - GO | | | |
| | | | All - GO | | | |
| 1445 | | TP 3.2.8 | Cards 25-26646-137 thru -172 | | | |
| | | | Cards 25-26646-169 | | | |
| | | | -171 NO - GO | | | |
| | | | -173 | | | |
| | | | -195 | | | |
| | | | -232 | | | |
| | | | All - GO | | | |
| 1515 | | Review 1 TP 3.2.4 | Cards 25-26642-169 | | | |
| | | | -171 NO - GO | | | |
| | | | -173 | | | |
| | | | -195 | | | |
| | | | -232 | | | |
| | | | All - GO | | | |
| PAGE 5 | | JOB NUMBER 61347 | NOMENCLATURE COMPATIBILITY TEST | | LEAD INSP. STAMP | INSP. REG. DATE |
| OF | | | | | STAMP | REG. DATE |
| J3 4430 55605 ORIG. 6/60 | | | | | | CUS. |

| TEST NUMBER | | UNIT SERIAL NUMBER | | TEST PLANNING | | MANUFACTURING AND INSPECTION RECORD | | PAGE OF | C |
|---|------------------|--------------------|-----------------------------|---------------------|----------------------|-------------------------------------|--------------|------------------|-------|
| TEST ITEM | TEST ITEM | TEST ITEM | TEST ITEM | BY | DATE | PAGE | ETR. NO. | 3 | |
| EDIT II-1B | W/S 1330B Vol. 2 | WORK ORDER NO. | 70105 | AUTHORITY | EWA 8956 | PLANNING BUDGET | VERIFICATION | DATE 10/12/74 | |
| MODEL NO. W/S 133A | SER. NO. | ITEM NO. | WORK ITEM NO. | REF. E. R. SER. NO. | OPERATION COMPLETION | REF. E. R. SER. NO. | INSP. | INSP. | ENCL. |
| 600 | | 1P's | 3.2.5, 3.2.6, 3.2.7 & 3.2.8 | | | | | | |
| All card tests in these paragraphs gave GO's | | | | | | | | | |
| 2/22/74 | | | | | | | | | |
| T2-2548, Vol. 5 Page 8 | | | | | | | | | |
| U3 4400 5500 ORIG. 6/60 | | | | | | | | | |

3400 5605 ORIG. 6/60

| MANUFACTURING AND INSPECTION RECORD | | | | PAGE OF |
|-------------------------------------|-----------------------------------|--------------------|---------------------------------|------------------------|
| TEST NUMBER | TEST PLANNING | UNIT SERIAL NUMBER | DATE | PAGE SER. NO. |
| E DIT II-1B D3-13308 Vol. 2 | BY DATE | 78105 | 12/13/ | TEST LOG |
| MODEL NO. 105133A | TEST ITEM SER. NO. | WORK ORDER NO. | PLANNING BUDGET VERIFICATION | OPERATION COMPLETION |
| TIME | CONDITION NO. | WORK ITEM NO. | REF. E. R. SER. NO. | SPEC. INSP. ENR. |
| 1100 | TP 3.2.5 All Cards - G0 | TPA 8950 | | |
| 2 | TP 3.2.6 | | | |
| 3 | Card 25-26644-156 - NO-G0 | | | |
| 4 | TP 3.2.7 All Cards - G0 | | | |
| 5 | TP 3.2.8 All Cards - G0 | | | |
| 6 | Report Tests | | | |
| 7 | T2-2548, Vol. 2 Sec. 5 | Page 10 | -189 | |
| 8 | TP 3.2.4 NO-G0 Cards 25-26642-194 | | -195 | |
| 9 | | | -196 | |
| 10 | | | -211 | |
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| MANUFACTURING AND INSPECTION RECORD | | | | | | | | | | PAGE OF |
|-------------------------------------|-----------|--|--|--------------------------------|-----------------|----------------------|--------------|------------|------------|---------------|
| TEST LOG | | | | | TEST PLANNING | | | | | PAGE SER. NO. |
| TEST NUMBER | | UNIT SERIAL NUMBER | | BY DATE | PLANNING BUDGET | | VERIFICATION | | | DATE |
| TEST ITEM | TEST ITEM | WORK ORDER NO. | WORK ORDER NO. | BY DATE | REF. E. R. | OPERATION COMPLETION | REF. E. R. | SHOP | ENGR. | DATE |
| ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | ITEM NO. | SER. NO. | INSP. | SER. NO. | INSP. | ENGR. | ITEM NO. |
| EDIT II-1B D2-1330B V6.2 | W5/33A | 70105 | 70105 | EW/A 8956 | | | | | | 1/1/71 |
| TP 3.2.5 | TP 3.2.6 | No-60 Card 25-26643-123 | All Cards - GO | | | | | | | |
| 1420 | 26213 | Ray Miller from P/B Test Set design removed bottom cover from Test Set and took out Phase Supply Evaluation cards A-7, A-8, & A-9. This was done to correct No-60 Signals on GO cards. | Results -- No-60 on cards 25-26642-168 | T2-2548, Sec. 5 Vol. 2 Page 11 | -171 | | -177 | | | |
| 1535 | | Shut down all equipment and replaced Fig. A 4523 with A CO 711 Power Supply Serial No. 0001, Part No. 25-26826-6 Results -- No-60 cards on 25-26642-174 | | | | | | | | |
| NOMENCLATURE COMPATIBILITY TEST | | | | | | | | | | |
| JOB NUMBER | 61347 | PART NUMBER | — | LEAD INSP. | INSP. REG. | LEAD INSP. | INSP. REG. | STAMP DATE | STAMP DATE | CU |
| PAGE OF | 9 | OF | OF | N3 4400 5605 ORIG. 6/60 | | | | | | |

JOB NUMBER
G1347
U3 4400 5605 ORIG. 6/60

| TEST NO. | | UNIT SERIAL NUMBER | | TEST PLANNING | | MANUFACTURING AND INSPECTION RECORD | | PAGE OF |
|-------------------------|----------|---|---------------|---------------------|------------------------------|-------------------------------------|------------------|-----------------|
| TEST ITEM | ITEM NO. | TEST ITEM | ITEM NO. | BY | DATE | TEST LOG | PAGE SER. NO. | |
| MODEL NO. | SER. NO. | WORK ITEM NO. | WORK ITEM NO. | REF. E. R. SER. NO. | PLANNING BUDGET VERIFICATION | OPERATION COMPLETION | DATE | |
| TIME | CONT'D | TIME | CONT'D | TIME | CONT'D | TIME | CONT'D | TIME |
| 0830 | | Test beginning to replace switch S-2 in 1201 chassis A-6 | | | | | | |
| 1030 | 2023 | Switch S-2 replaced and potential trouble in BT5155A on rig A 1201 has been cleared up. | | | | | | |
| 1100 | | Ring Rm functional test began | | | | | | |
| 1430 | | TP 10.7.1622 - G7 indicator does not light | | D2-7817, V-3, S-2 | | | | |
| | | T2-2548, Vol. 2 Sec. 21 | | | | | | |
| 1530 | | Call W-4 -- Connection P04-Pn #1 indicated an insulation connection but further investigation revealed a short connection. This short was eliminated & G7 indicator began to light. | | | | | | |
| | | | | | | | | |
| PART OF | | JOB NUMBER | | PART NUMBER | | NOMENCLATURE | LEAD INSP. STAMP | INSP. REG. DATE |
| 61347 | | | | | | COMPATIBILITY TEST | STAMP | DATE |
| U3 4400 5605 ORIG. 6/60 | | | | | | | | |

| TEST ITEM | | UNIT SERIAL NUMBER | TEST PLANNING BY DATE | MANUFACTURING AND INSPECTION RECORD | | PAGE OF PAGE SER. NO. | TEST LOG | PLANNING BUDGET | VERIFICATION | DATE / 12/1 |
|-------------------------|------------------|--------------------|---|-------------------------------------|--------------------------|--------------------------|--------------------------|-----------------------|--------------|----------------|
| MOUL. NO. | TEST ITEM | WORK ORDER NO. | TEST ITEM | REF. E.R. SER. NO. | OPERATION COMPLETIO N | REF. E.R. SER. NO. | OPERATION COMPLETIO N | REF. E.R. SER. NO. | INSP. EN | |
| ITEM NO. | COP. ITEM NO. | WORK ITEM NO. | | | | | | | | |
| 1330 | 1330 | 1330 | Tested and shorted on P/G Test A 1701 To D2-10.10.3-1 of Job. D2-7817 | | | | | | | |
| 1335 | 1335 | 1335 | Test 1335A continues to show faces when power is applied | | | | | | | |
| 1400 | 1400 | 1400 | Checked Diagnostics and removed rectifier card in Power Processor (A-6) | | | | | | | |
| | | | Line short with power applied this indicates the trouble was either the motor, thermal, diodey, or contactors | | | | | | | |
| | | | All contactors removed from tested for short - short in A-6 contactor to circuit and main circuit short - trouble is in one of the diodes. | T2-2548 Sec. 5 Page 22 | Vol. 2 Page 22 | | | | | |
| | | | Resistor checking revealed the defective resistor to be CR145 | | | | | | | |
| PAGE OF | | JOB NUMBER | NOMENCLATURE | | COMPATIBILITY | | PART NUMBER | LEAD INSP. | INSP. REG. | |
| 19 | | 61347 | — | | TEST | | — | STAMP | DATE | |
| 03 4400 5605 ORIG. 6/60 | | | | | | | | | | |

| TEST ITEM | | | | UNIT SERIAL NUMBER | TEST PLANNING | TEST LOG | MANUFACTURING AND INSPECTION RECORD | | | PAGE OF |
|---------------------------------|---------------------|----------------|----------|--|---------------|---------------|-------------------------------------|----------------------|------------------|---------|
| MODEL NO. | TEST ITEM | WORK ORDER NO. | REF. NO. | TEST ITEM | REV. DATE | PAGE SER. NO. | AUTHORITY | PLANNING BUDGET | VERIFICATION | DATE |
| 112-13363 | V1.1.2 | 78105 | EWA 6956 | | | | | | | 12/2 |
| TIME | C. ACTUAL TEST ITEM | WORK ITEM NO. | REF. NO. | | | | REF. E. R. SER. NO. | OPERATION COMPLETION | | |
| 0600 | | | | Visually inspecting on BTS 155A were compared with dimension of volume and size of all hardware were within tolerance. | | | SHOP | INSP. | FIN. | |
| 0830 | | | | Functional testing continued on 1201 at TP 12.10 in lot. D2-7017, Vol. 3, Sec.-2 | | | | | | |
| 1400 | | | | Functional test complete through TP 10.16.39 | | | | | | |
| | | | | Printed out the formal engineering paper was required during the remainder of the day. | | | | | | |
| | | | | T2-2546, Sec. 5, Vol. 2, Part 21 | | | | | | |
| PAGE 21 OF 4400 5605 ORIG. 6/60 | | | | COMPATIBILITY TEST | | | NOMENCLATURE | LEAD INSP. STAMP | INSP. REG. STAMP | |
| | | | | | | | | | | |

| TEST ITEM | | TEST ITEM NO. | WORK ORDER NO. | TEST LOG | PAGE SER. NO. | DATE |
|--|------------|-----------------|----------------|-----------------------|---------------------------------------|---------------------------------|
| MODEL NO. | W/5137A | SER. NO. | 78105 | AUTHORITY | EWAB95C | PLANNING BUDGET VERIFICATION |
| TIME | C | W/GM ITEM N. | - | 'REF E.R. SER. NO. | OPERATION COMPLETION SHOP INSP. EN | DATE |
| <p>End to End testing: NO GO's</p> <p>1st 2nd 3rd 4th 5th</p> <p>-165 All-GO's -191 -185 -166</p> <p>-187 -206 -187 -175</p> <p>-220 -196 -176</p> <p>-225 -198 -190</p> <p>-217 -193</p> <p>6th</p> <p>-225</p> <p>-226</p> <p>T2-2548, Vol. 2 Sec. 5 Page 31</p> | | | | | | |
| PAGE | JOB NUMBER | | PART NUMBER | | LEAD INSP. STAMP | INSP. REG. DATE |
| OF | 61347 | | - | | OF | OF |

| TEST EQUIPMENT | | UNIT SERIAL NUMBER | TEST PLANNING BY DATE | MANUFACTURING AND INSPECTION RECORD | | PAGE OF |
|---|-----------|-------------------------|-------------------------|-------------------------------------|----------------------|---|
| FJLT II-1B D2-13208 Vol. 2 | | | | TEST LOG | | PAGE SER. NO. |
| TEST ITEM | TEST ITEM | WORK ORDER NO. | 78105 | AUTHORITY | EW A 8956 | PLANNING BUDGET |
| MODEL NO. | SKT. NO. | TIME | CONDITION WORK ITEM NO. | TIME | VERIFICATION | DATE |
| TEST ITEM | TEST ITEM | TIME | CONDITION WORK ITEM NO. | TIME | REF E.R. SER. NO. | OPERATION COMPLETION SHOP INSP. C.I. |
| 0800 | W5133A | TIME | ITEM NO. | TIME | ITEM NO. | DATE |
| 1 - Continued End to End testing with the following NO- GO's | | | | | | |
| | | -168 | -169 | -204 | -220 | |
| | | -173 | -190 | -205 | -222 | |
| | | -180 | -193 | -206 | -225 | |
| | | -181 | -194 | -214 | -226 | |
| | | -185 | -195 | -215 | -228 | |
| | | -188 | -201 | -219 | -232 | |
| 2 - Lines Segmented test - All GO | | | | | | |
| 3 - P/G Launch Sequence Test - NO-GO's | | | | | | |
| -133, -133, -136, -140, -145, -157 | | | | | | |
| 4 - Progammer Calibration Test - All GO | | | | | | |
| 5 - Monitor Launcher Missile Status Test - | | | | | | |
| NO GO's --: -141, -155, -156, -160 | | | | | | |
| T2-2548 Sec. 5 Vol. 2 Page 32 | | | | | | |
| NOMENCLATURE | | | | | | |
| PAGE OF | | JOB NUMBER | LEAD INSP. STAMP | INSP. REG. DATE | INSP. STAMP | C.I. |
| | | 61347 | | | | |
| | | U3 4400 5605 ORIG. 4/60 | | | | |
| COMPATIBILITY TEST | | | | | | |

二

| TEST NUMBER | | UNIT SERIAL NUMBER | | TEST PLANNING | | MANUFACTURING AND INSPECTION RECORD | | PAGE # OF | |
|---|----------|--------------------|------|--------------------|---------------|-------------------------------------|--|-----------|--|
| TEST NUMBER | EF | BY | DATE | TEST LOG | PAGE SER. NO. | PLANNING BUDGET | VERIFICATION | DATE | |
| D1-17 | II-1B | — | — | 78105 | EWA 895C | REF E. R. SER. NO. | OPERATION COMPLETION SHOP INSP. ENG | 1-16- | |
| D2-13308 | Vol. 1 | 2 | — | | | | | | |
| TEST ITEM | | SER. NO. | | WORK ORDER NO. | | AUTHORITY | | | |
| MODEL NO. W5133A | | | | 78105 | | | | | |
| TIME | CONDITON | WORK ITEM NO. | | | | | | | |
| (8.0.) | | | | | | | | | |
| <p>Installed new Card Reader Assy, ser. # 000021, in Q/G Test Set. Connected all equip. for EDIT II-1B Test. Proceeded with EDIT II-1B Test.</p> <p>2/3</p> <p>TP 3.2.1.5 - Completed</p> <p>3.2.1.6 - Completed</p> <p>3.2.2.0 - Completed</p> <p>3.2.3.0 - Completed</p> <p>3.2.4.0 - Completed</p> <p>3.2.5.0 - Completed</p> <p>3.2.6.0 - Completed</p> <p>3.2.7.0 - Completed</p> <p>3.2.8.0 - Completed</p> <p>3.2.8.3 - Test Complete - OK</p> <p>T2-2548, Vol. 2 Sec. 5 Page 33</p> <p>1600</p> | | | | | | | | | |
| JOB NUMBER | | PART NUMBER | | NOMENCLATURE | | LEAD INSPI. | INSPI. REG. | CU | |
| OF | | — | | COMPATIBILITY TEST | | STAMP | DATE | | |
| 13400 5605 ORIG. 6/60 | | | | | | | | | |

THE BOEING COMPANY

NUMBER T2-2548 MODEL NO. WS133A
TITLE Engineering Development Integration
Test No. Two-B (EDIT II-1B) Photographs

| | | |
|----------------------|-----------------------|----------------|
| PREPARED BY | <u>D. W. Gladish</u> | <u>3/14/63</u> |
| SUPERVISED BY | <u>E. G. Hellings</u> | <u>3/12/63</u> |
| APPROVED BY | <u>R. B. Edgar</u> | <u>3/13/63</u> |
| RELIABILITY APPROVAL | <u> </u> | |
| | (DATE) | |

, (DATE)

AF 04(647)-289

5-78105-8640-68956

CHARGE NUMBER

2/22/3

VOL. 2 NO. T2-2548
SEC. 6 PAGE 1 OF 8

1.0

PHOTOGRAPHS

The following photographs show equipment used in the EDIT test.
The first photograph shows all the equipment connected as shown
in Figure 3.2.1.3-1.

U3 4288 2000 REV. 8/62

2-5142-2

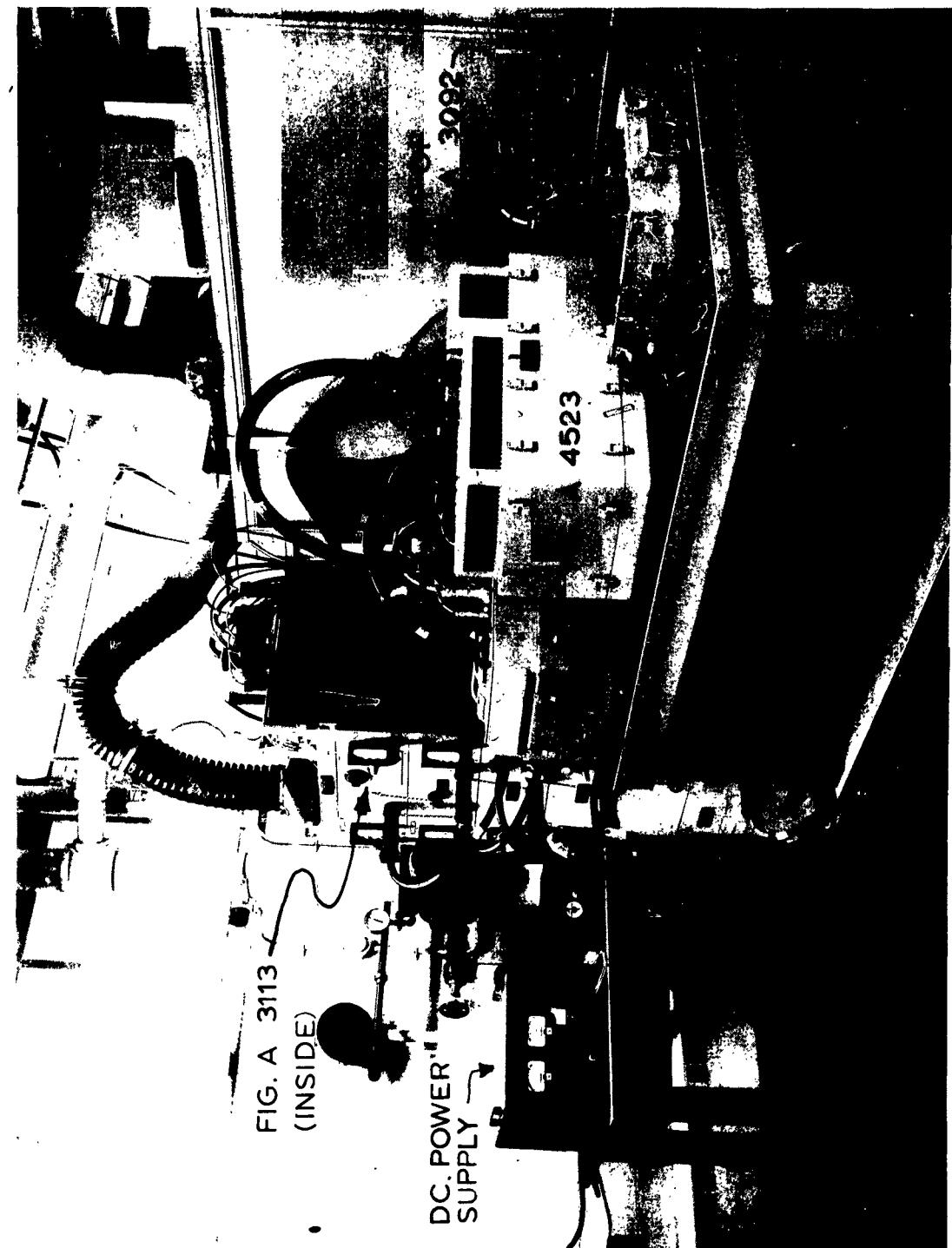
162

REV SYM 2/22/3

BOEING NO. T2-2548, Vol. 2
SECT. 6 PAGE 2

REVISION GROUP CARD NUMBER
AND ADDRESS - EDIT THIS
1-27-63

2A131245



REVISED 2/22/63

U3 4288 2000

BOEING

VOL. 2 NO T2-2548

SEC.

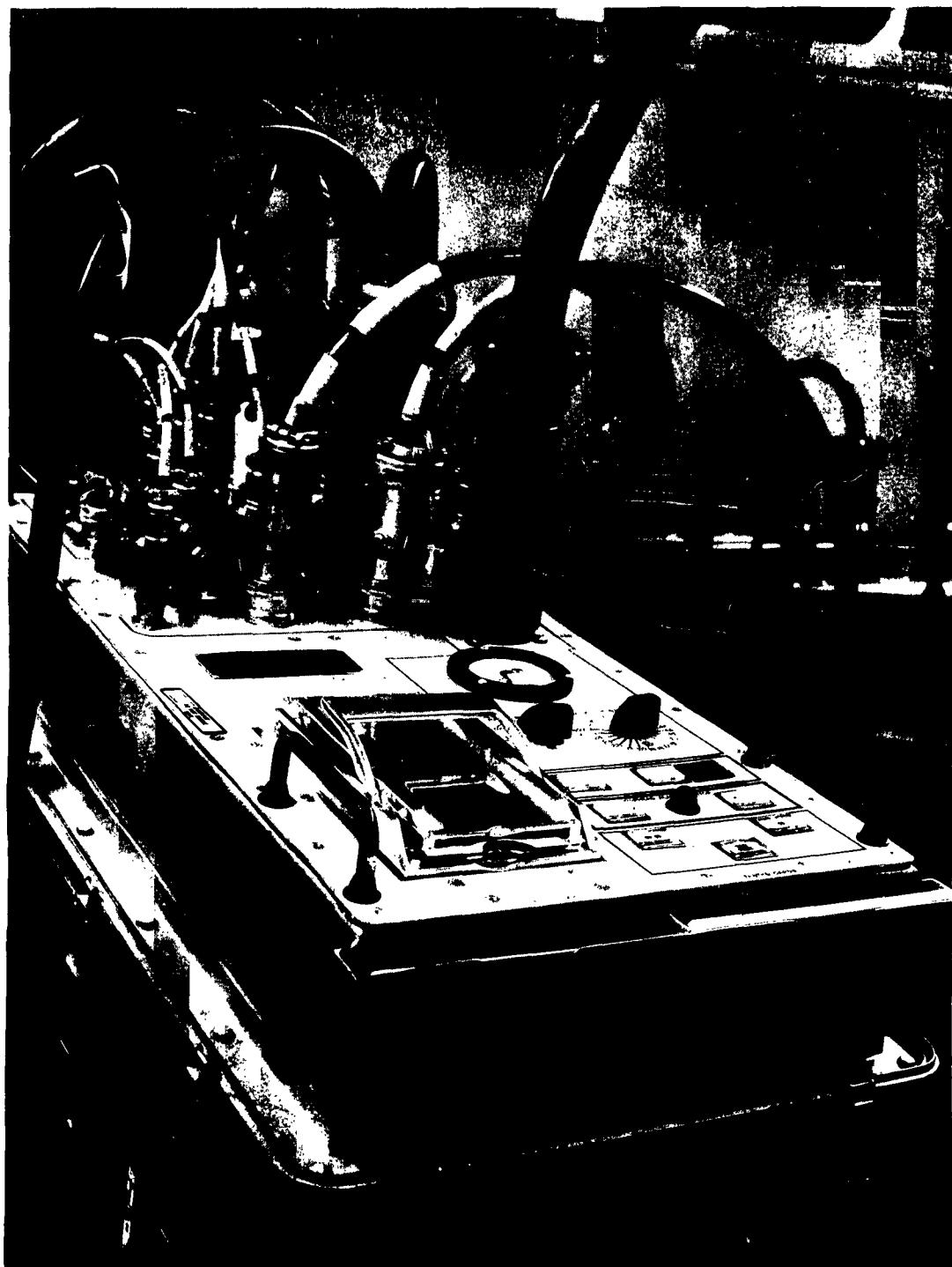
6

PAGE 3



PROG. GROUP CARD READER
AND WRITER - SET TEST
1-17-63

2A131242



PROGRAMMER GROUP TEST SET
FIG. A 3092

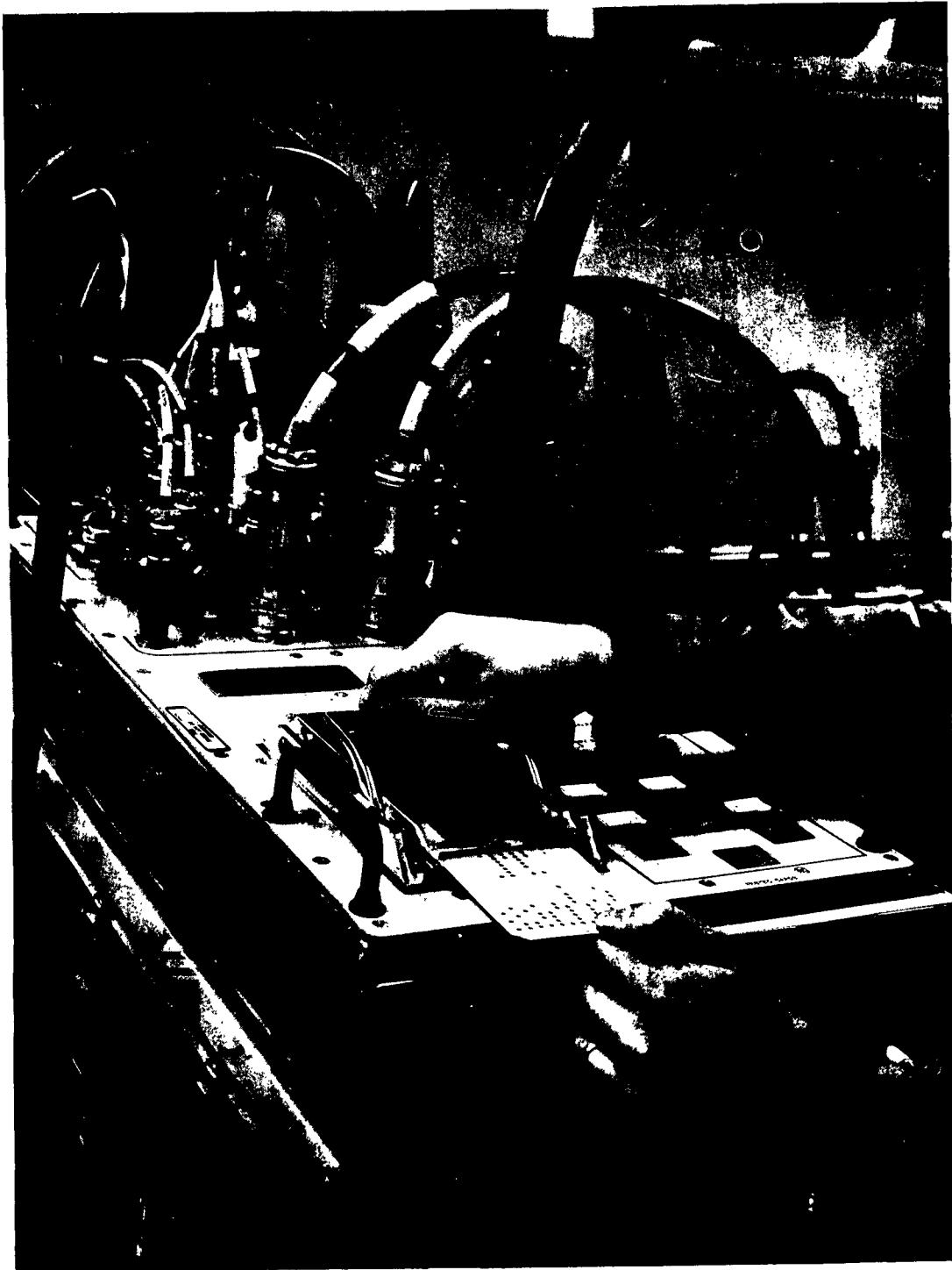
REVISED 2/22/53

U3 4288 2000

BOEING VOL. 2 NO T2-2548 →
SEC. 6 PAGE 4

RECORDED GROUP CARD READER
AND ADAPTER - NOTE 2007 1-27-53

2A131244



REMOVING CARD FROM CARD READER

FIG. A 3092

REVISED 2/22/63

U3 4288 2000 ,

BOEING | VOL. 2 | NO T2-2548 →
SEC. 6 | PAGE 5 .

INC. INSTRUMENT GROUP CARD NUMBER 1-37-63
AND ADAPTER - EDIT TEST 2A131243



DISTRIBUTION BOX—PART OF
FIG. A 3092

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U3 4288.2000

BOEING | VOL. 2 | NO T2-2548 →
SEC. 6 | PAGE 6



POWER SUPPLY—FIG. A 4523

NO. INFORMATION GROUP CARD NUMBER 2A131240
AND ANSWER - REVERSE SIDE 1-17-63

REvised 2122163
U3 4288 2000

BOEING VOL. 2 NOT 2-2548 →
SEC. 6 PAGE 7

PROGRAMMER GROUP CARD NUMBER
AND ADAPTER - EDIT STAFF 1-17-63

2A131241



DUMMY DECODER RELAY ASSEMBLY—
FIG. A 3113

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U3 4288 2000

BOEING VOL. 2 NO T2-2548 →
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